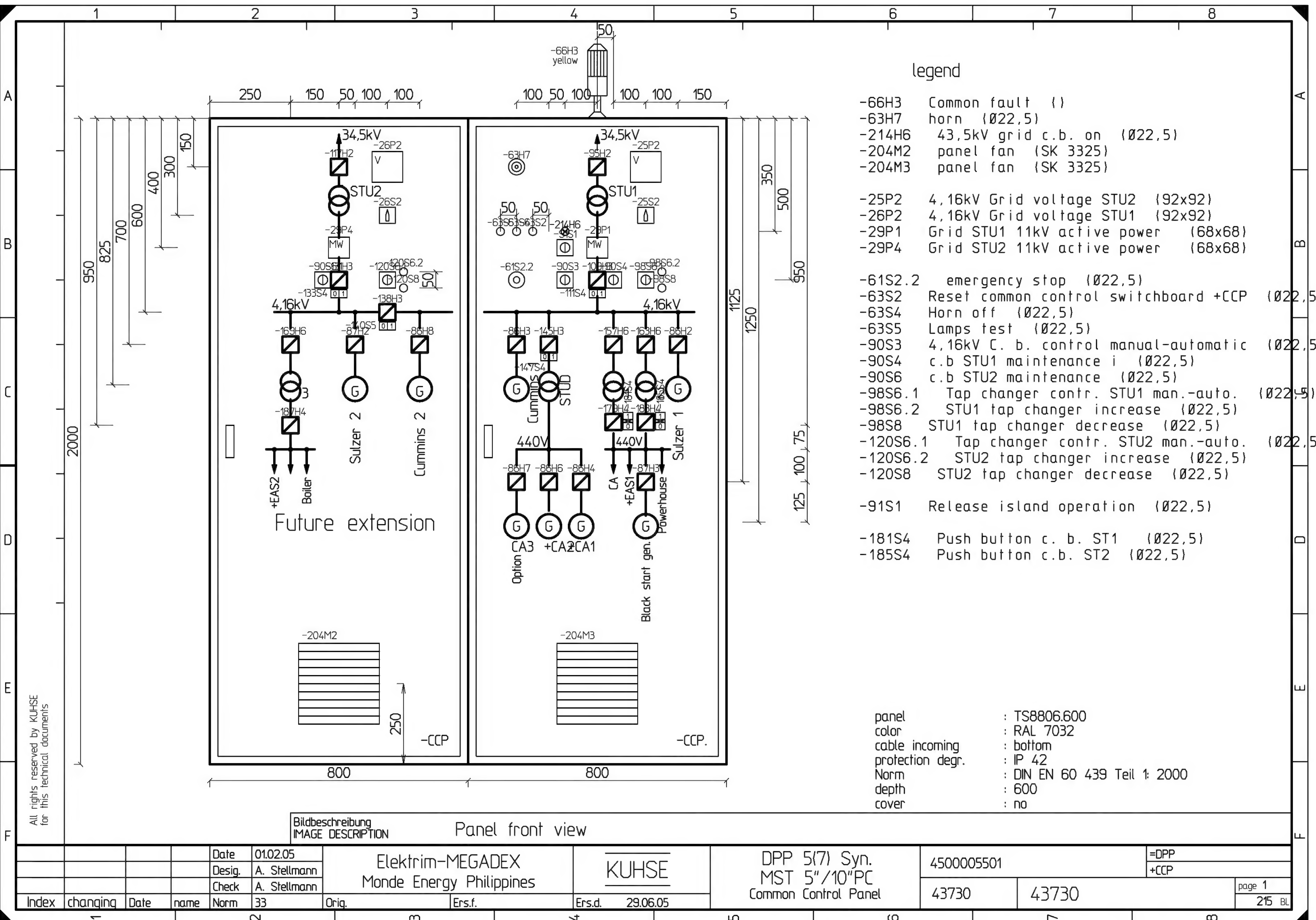


legend
-66H3 Common fault ()
-63H7 horn (Ø22,5)
-214H6 43,5kV grid c.b. on (Ø22,5)
-204M2 panel fan (SK 3325)
-204M3 panel fan (SK 3325)
-25P2 4,16kV Grid voltage STU2 (92x92)
-26P2 4,16kV Grid voltage STU1 (92x92)
-29P1 Grid STU1 11kV active power (68x68)
-29P4 Grid STU2 11kV active power (68x68)
-61S2.2 emergency stop (Ø22,5)
-63S2 Reset common control switchboard +CCP (Ø22,5)
-63S4 Horn off (Ø22,5)
-63S5 Lamps test (Ø22,5)
-90S3 4,16kV C. b. control manual-automatic (Ø22,5)
-90S4 c.b STU1 maintenance i (Ø22,5)
-90S6 c.b STU2 maintenance (Ø22,5)
-98S6.1 Tap changer contr. STU1 man.-auto. (Ø22,5)
-98S6.2 STU1 tap changer increase (Ø22,5)
-98S8 STU1 tap changer decrease (Ø22,5)
-120S6.1 Tap changer contr. STU2 man.-auto. (Ø22,5)
-120S6.2 STU2 tap changer increase (Ø22,5)
-120S8 STU2 tap changer decrease (Ø22,5)
-91S1 Release island operation (Ø22,5)
-181S4 Push button c. b. ST1 (Ø22,5)
-185S4 Push button c.b. ST2 (Ø22,5)
panel : TS8806.600
color : RAL 7032
cable incoming : bottom
protection degr. : IP 42
Norm : DIN EN 60 439 Teil 1: 2000
depth : 600
cover : no
-66H3 yellow
34,5kV
STU2
STU1
4,16kV
440V
Future extension
Sulzer 2
Cummins 2
Sulzer 1
Cummins
STUD
+EAS2
Boiler
CA
+EAS1
Powerhouse
Black start gen.
CA3
+CA2
CA1
Option
-204M2
-204M3
-CCP
-CCP.
Bildbeschreibung
IMAGE DESCRIPTION
Panel front view
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 1
215 BL

800 800

M16 M16

640 640

440 440

605

675 675

Cable gland Ø 8x13mm

Cable gland Ø 3x21mm

Bildbeschreibung
IMAGE DESCRIPTION

Bottom view

Index	changing	Date	name	Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. Ers.f. Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 43730

=DPP
+CCP

Bildbeschreibung
IMAGE DESCRIPTION

spare

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 3 / 215 BL

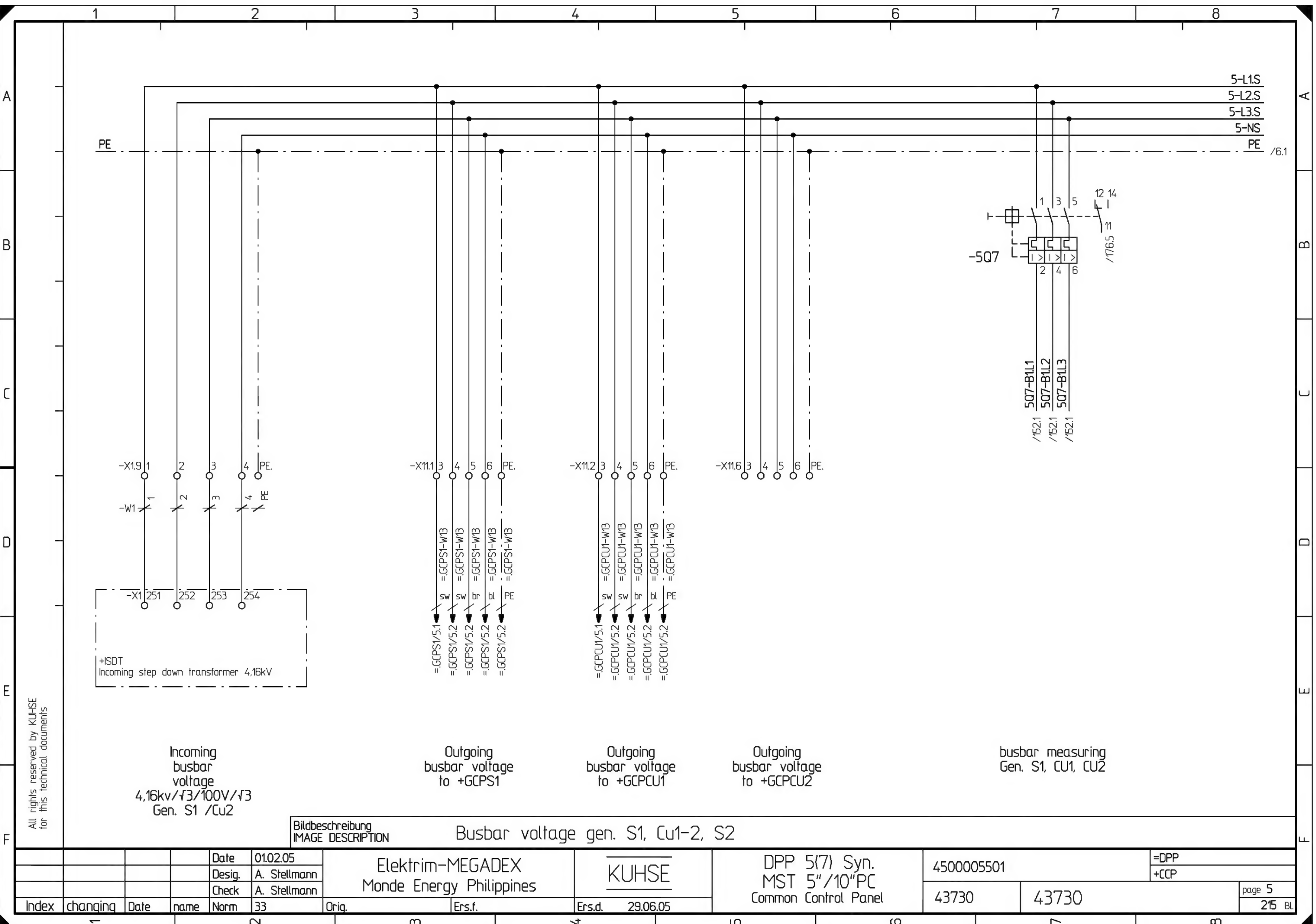
outlet filter SK 3326.200

400 | 400 | 600 | 300 | 300 | -3Z1 | -3Z1

Bildbeschreibung
IMAGE DESCRIPTION

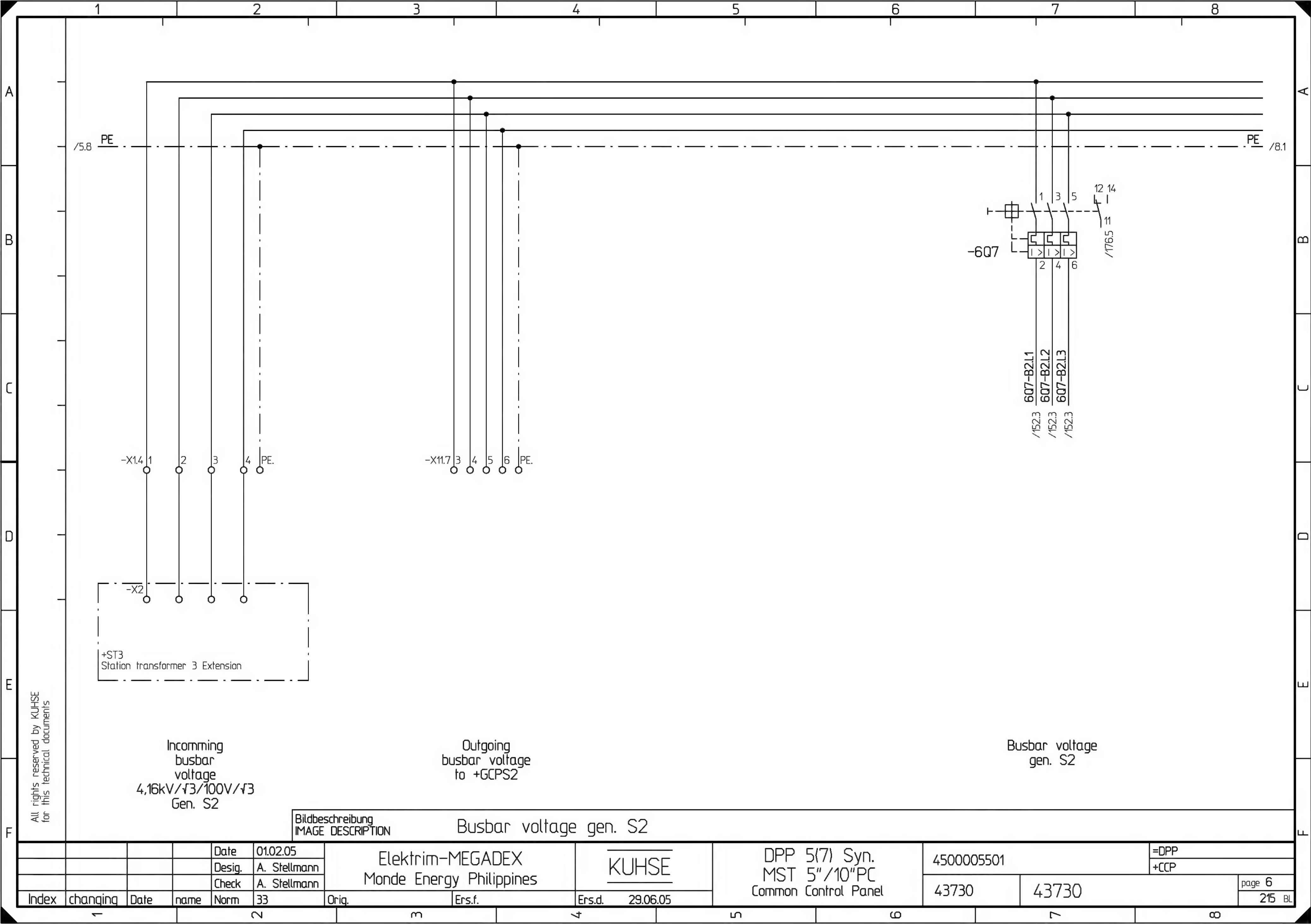
Top view

			Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
			Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
			Check	A. Stellmann			Common Control Panel	43730	43730 page 4
Index	changing	Date	name	Norm 33	Orig. Ers.f.	Ers.d. 29.06.05			215 BL



Bildbeschreibung
IMAGE DESCRIPTION
Busbar voltage gen. S1, Cu1-2, S2

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
				Norm	33	Orig. / Ersf.	Ers.d. 29.06.05			page 5 / 215 BL



Bildbeschreibung
IMAGE DESCRIPTION
Busbar voltage gen. S2

Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
Check	A. Stellmann			Common Control Panel	43730 43730	page 6
Norm	33	Orig. Ers.f.	Ers.d. 29.06.05			215 BL

Index changing Date name

7L1:400V
7L2:400V
7L3:400V

+EB
-7F4 B6A 1 2 23 24 11 12
7F4:L1-400V
/155.1

+EB
-7F5 B6A 1 2 24 23 11 12
7F5:L2-400V
/155.1

+EB
-7F6 B6A 1 2 23 24 11 12
7F6:L3-400V
/155.1

-X15 1 2 3 4 PE.
=.GCPCA3-10W3
1 2 3 4 PE
=.GCPCA3/10.3
=.GCPCA3/10.3
=.GCPCA3/10.3
=.GCPCA3/10.4
=.GCPCA3/10.4

busbar voltage
for synchronizing
400V, 60Hz
black start gen.

Bildbeschreibung
IMAGE DESCRIPTION

Inc. busbar volt. black st.gen.400V,60Hz

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

Bildbeschreibung
IMAGE DESCRIPTION

Inc. busbar voltage Cat.1-3 440V, 60Hz

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 8 / 215 BL

9-L1.V
9-L2.V
9-L3.V
9-N.V
/8.8 PE
PE /10.1

-9F5 B6A 1 2 23 24 11 12 /176.1
-9F6 B6A 1 2 23 24 11 12 /176.1

-1XNV 1 2 3 4

-X11.0 3 3 4 4 PE. PE.
-X2.1 1
2 PE.

9F5-V.L1 /204.1
-1XNV:2 /204.1
-1XNV:4
9F6-V.L1 /31.1
-1XNV:3 /31.1
-X2.1 3 4 PE.

=.OGA2-W6 1 =.OGA2/9.2
=.OGA2-W6 2 =.OGA2/9.3
=.OGA2-W6 PE =.OGA2/9.3
=.GCPS1-W69 1 =.GCPS1/6.1
=.GCPS1-W69 2 =.GCPS1/6.2
=.GCPS1-W69 PE =.GCPS1/6.2

Incoming
consumer voltage
230V, 60Hz, 10A
from +OGA2

Outgoing
consumer voltage
230V, 60Hz, 10A
to +GCPS1

panel fan
panel lamp

Printer

Bildbeschreibung
IMAGE DESCRIPTION

Incoming consumer voltage 230V, 60Hz

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 9 / 215 BL

10L1-440V /11.1
10L2-440V /11.1
10L3-440V /11.1
PE /11.1
/9.8 PE

-10F4 B6A 1 2 23 24 11 12 /176.1 10F4:L1 /28.1
-10F5 B6A 1 2 23 24 11 12 /176.1 10F5:L2 /28.1
-10F6 B6A 1 2 23 24 11 12 /176.2 10F6:L3 /28.1

-X11.0 L1 L2 L3 PE.

=.0GA2-W17 1 =.0GA2/6.5
=.0GA2-W17 2 =.0GA2/6.5
=.0GA2-W17 3 =.0GA2/6.5
=.0GA2-W17 PE =.0GA2/6.5

Incoming
busbar voltage ST1/2
440V, 60Hz, 25A
from +0GA2

Bildbeschreibung
IMAGE DESCRIPTION

Incoming busbar volt. ST1/ST2 440V, 60Hz

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. Ers.f. Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501
43730 43730

=DPP
+CCP

10L1-440V /10.8
10L2-440V /10.8
10L3-440V /10.8

-11Q2
1,2A
1,10-1,60A

1 3 5 / 2 4 6
13 14 / 21 22 /176.5

-11T2
Pr.440V
Sek.254V
500VA
L1 L2 254 0

-11F2 C1A 1 2
23 24 / 11 12 /176.2

-11F5 C1A 1 2
23 24 / 11 12 /176.2

/10.8 PE
-X3.1 1 2 PE.
-X3.2 1 2 PE.
PE /13.1

-W2 1 2 PE
-W8 1 2 PE

-X2 1 2 PE.
+STU1 OLTC
step up transformer 1 10MVA OLTC

-X3 1 2 PE.
+STU1
step up transformer 1 10MVA

Power supply
254V 60Hz
100W

Power supply
254V 60Hz
50W

10L1-440V
10L2-440V
10L3-440V

Bildbeschreibung IMAGE DESCRIPTION	Feeder 254V 60Hz for STU1

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

Bildbeschreibung
IMAGE DESCRIPTION

spare

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

/11.6 PE

PE /14.1

-13Q7

1 3 5 12 14 11 /176.5

2 4 6

13Q7-ISU1L1 /25.2
13Q7-ISU1L2 /25.2
13Q7-ISU1L3 /25.2

-X1.1 1 2 3 4 PE.

-W3 1 2 3 4 PE

-X1 203 206 209 213

+OSTU1
Outgoing step up transformer 1

Incomming
voltage
step up transformer 1
4,16kV/√3/100V/√3

4,16 kV step up transformer 1

Bildbeschreibung
IMAGE DESCRIPTION Inc. mains voltage step up tr. 1 4,16kV

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

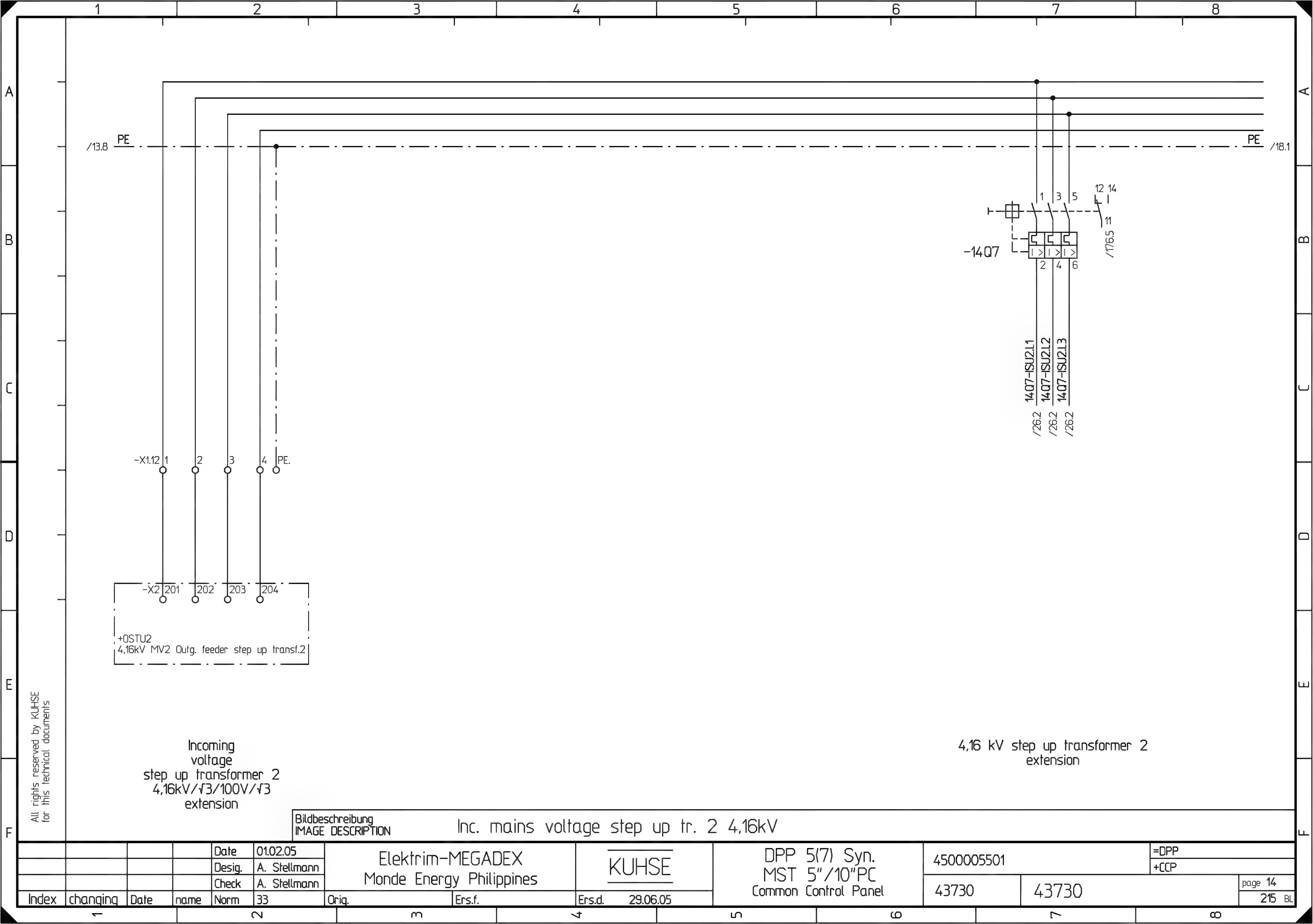
KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP


/13.8 PE
PE /18.1
-X1.12 1
2
3
4
PE.
-X2 201
202
203
204
+0STU2
4,16kV MV2 Outg. feeder step up transf.2
-14Q7
1
3
5
12 14
11
/176.5
2
4
6
14Q7-ISU2.L1
14Q7-ISU2.L2
14Q7-ISU2.L3
/26.2
/26.2
/26.2
Incoming
voltage
step up transformer 2
4,16kV/√3/100V/√3
extension
4,16 kV step up transformer 2
extension
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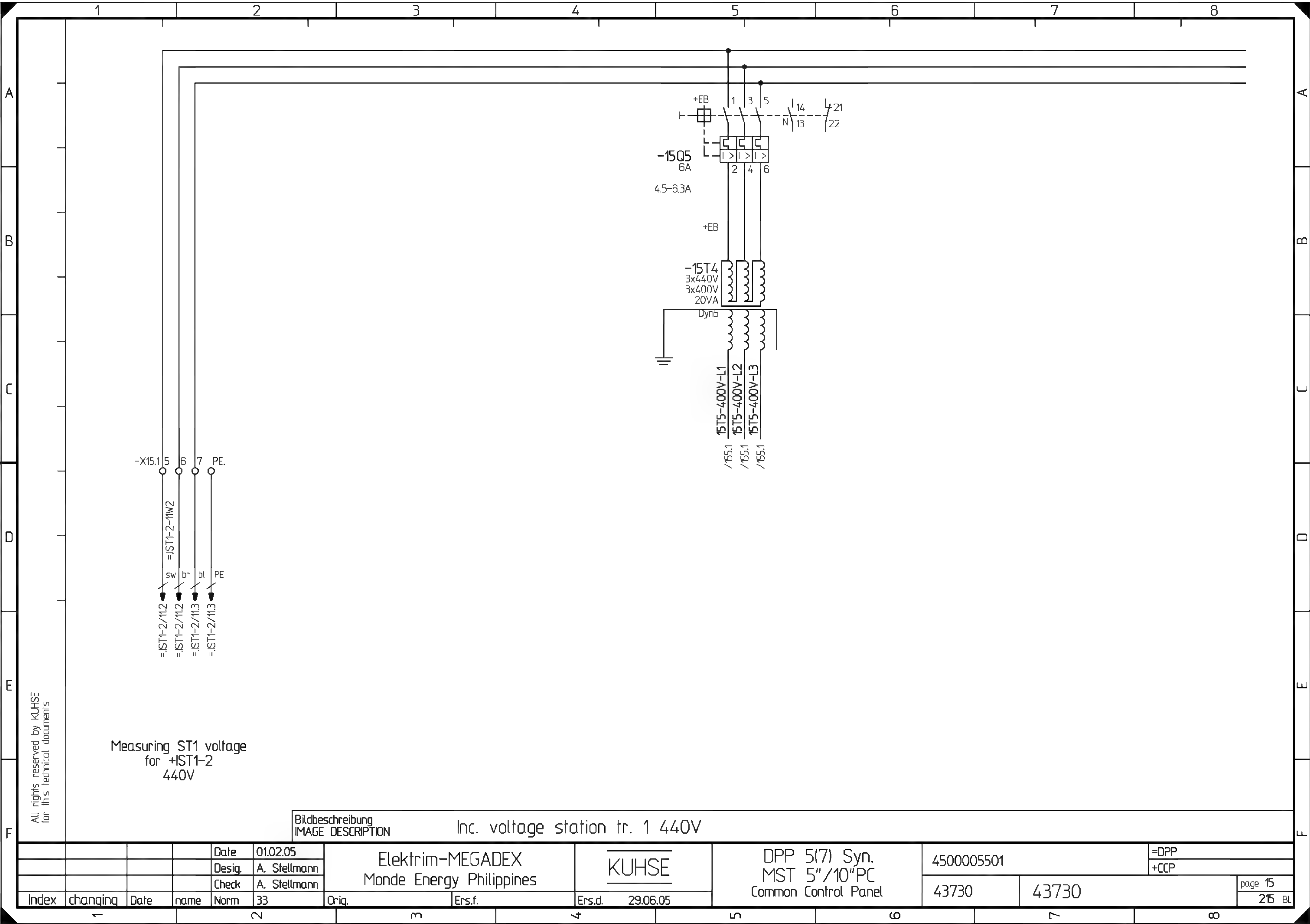
Bildbeschreibung
IMAGE DESCRIPTION
Inc. mains voltage step up tr. 2 4,16kV
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 14
215 BL



+EB
1 3 5
14 13 N
21 22
-15Q5
6A
4.5-6,3A
2 4 6
+EB
-15T4
3x440V
3x400V
20VA
Dyn5
15T5-400V-L1
15T5-400V-L2
15T5-400V-L3
/15S.1
/15S.1
/15S.1
-X15.1 5 6 7 PE.
=JST1-2-11W2
sw br bl PE
=JST1-2/11.2
=JST1-2/11.2
=JST1-2/11.3
=JST1-2/11.3
Measuring ST1 voltage
for +IST1-2
440V
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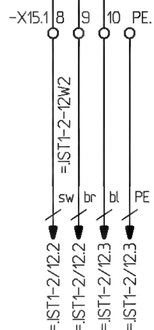
for this technical documents
Bildbeschreibung
IMAGE DESCRIPTION
Inc. voltage station tr. 1 440V
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 15
215 BL



Bildbeschreibung
IMAGE DESCRIPTION

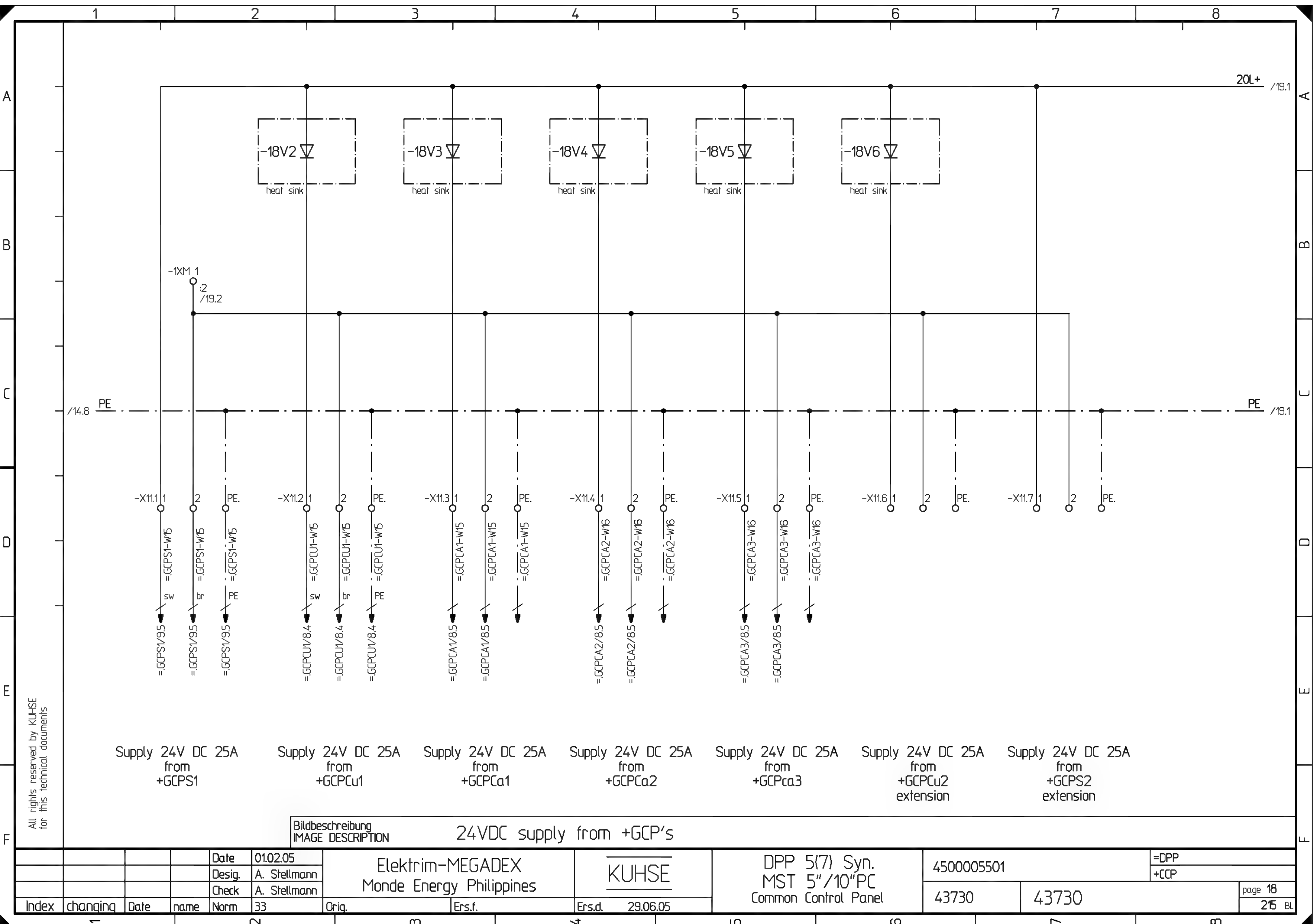
Inc. voltage station tr. 2 440V

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

Bildbeschreibung
IMAGE DESCRIPTION

spare

Index	changing	Date	name						
				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501 / =DPP / +CCP
				Desig.	A. Stellmann				
				Check	A. Stellmann				43730 / 43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05		page 17 / 215 BL


20L+ /19.1
PE /19.1
/14.8 PE
-18V2
-18V3
-18V4
-18V5
-18V6
heat sink
-1XM 1 :2 /19.2
-X11.1 1 2 PE.
-X11.2 1 2 PE.
-X11.3 1 2 PE.
-X11.4 1 2 PE.
-X11.5 1 2 PE.
-X11.6 1 2 PE.
-X11.7 1 2 PE.
=.GCPS1-W15
=.GCPCU1-W15
=.GCPCA1-W15
=.GCPCA2-W16
=.GCPCA3-W16
sw br PE
=.GCPS1/9.5
=.GCPCU1/8.4
=.GCPCA1/8.5
=.GCPCA2/8.5
=.GCPCA3/8.5
Supply 24V DC 25A from +GCPS1
Supply 24V DC 25A from +GCPCu1
Supply 24V DC 25A from +GCPCa1
Supply 24V DC 25A from +GCPCa2
Supply 24V DC 25A from +GCPca3
Supply 24V DC 25A from +GCPCu2 extension
Supply 24V DC 25A from +GCPS2 extension
Bildbeschreibung IMAGE DESCRIPTION
24VDC supply from +GCP's
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig. Ers.f. Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730 43730
=DPP
+CCP
page 18
215 BL
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20L+ /18.8 — 20L+ /20.1

-19F1 C6A (1, 2, 23, 24, 11, 12) /176.2 — 19F1L+ /32.1
-19F2 C20A (1, 2, 23, 24, 11, 12) /176.2
-19F3 B6A (1, 2, 23, 24, 11, 12) /176.2 — 19F3L+ /25.4
-19F4 B6A (1, 2, 23, 24, 11, 12) /176.2 — 19F4L+ /61.1
-19F5 B6A (1, 2, 23, 24, 11, 12) /176.3 — 19F5L+ /153.3
-19F6 B6A (1, 2, 23, 24, 11, 12) /176.3 — 19F6L+ /66.1
-19F7 B6A (1, 2, 23, 24, 11, 12) /176.3 — 19F7L+ /40.1
-19F8 B6A (1, 2, 23, 24, 11, 12) /176.3 — 19F8L+ /100.1

-1XM 2 :1 /18.2 — -1XM:2 /32.1
-1XM 3
-1XM 4 — -1XM:4 /25.4
-1XM 5
-1XM 6
-1XM 7
-1XM 8
-1XM 9 :10 /20.2

PE /18.8 — PE /27.1

-X11 1 =.CA-W57 =.CA/7.1
2 =.CA-W57 =.CA/7.2
PE. =.CA-W57 =.CA/7.2

power supply centr.computer BHKC 24VDC	Power supply Feld +CA 24VDC	voltage supply digital inputs 24VDC	power supply interlock, em. stop 24VDC	supply voltage synchronising 24VDC	supply voltage signal lamps 24VDC	voltage supply digital outputs 24VDC	voltage supply extern digital in-/output 24VDC

Bildbeschreibung IMAGE DESCRIPTION: 24VDC supply feeders

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann				43730	43730
				Check	A. Stellmann					
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

/19.8 20L+ — 20L+ /21.1

-20F1 C6A (1, 2, 23, 24, 11, 12) /176.3
-20F2 C16A (1, 2, 23, 24, 11, 12) /176.3
-20F3 C16A (1, 2, 23, 24, 11, 12) /176.3
-20F4 C16A (1, 2, 23, 24, 11, 12) /176.4
-20F5 C6A (1, 2, 23, 24, 11, 12) /176.4
-20F6 B6A (1, 2, 23, 24, 11, 12) /176.4

-1XM 10 :9 /19.8, -1XM 11, -1XM 12, -1XM 13, -1XM 14, -1XM 15

20F1L+ /55.1
-1XM:10 /55.1
-2X11 1 =B110-W4 =B110/4.1
2 =B110-W4 =B110/4.2
PE. =B110-W4
-3X11 1 1 =ICGC1-W5 =ICGC1/5.1
2 2 =ICGC1/5.2
PE.
-1X11 1
2 PE.
20F5L+
20F6L+ /27.1

power supply KANI 24VDC

power supply +B110 24VDC

power supply +ICGC1 24VDC

Spare 24VDC

Spare 24VDC

Power supply protection units 24VDC

Bildbeschreibung IMAGE DESCRIPTION: 24VDC supply feeders

Index	changing	Date	name	Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ersf. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501
43730 | 43730

=DPP
+CCP

/20.8 20L+

20L+

-21F1
B10A
1 2 23 24 11 12
/176.4

12M

12M

voltage supply
spare
24VDC

Bildbeschreibung
IMAGE DESCRIPTION

24VDC supply feeders

			Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP
			Desig.	A. Stellmann					+CCP
			Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05	

Bildbeschreibung
IMAGE DESCRIPTION
spare

				Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730 page 22
Index	changing	Date	name	Norm	33	Orig. Ers.f.	Ers.d. 29.06.05			215 BL

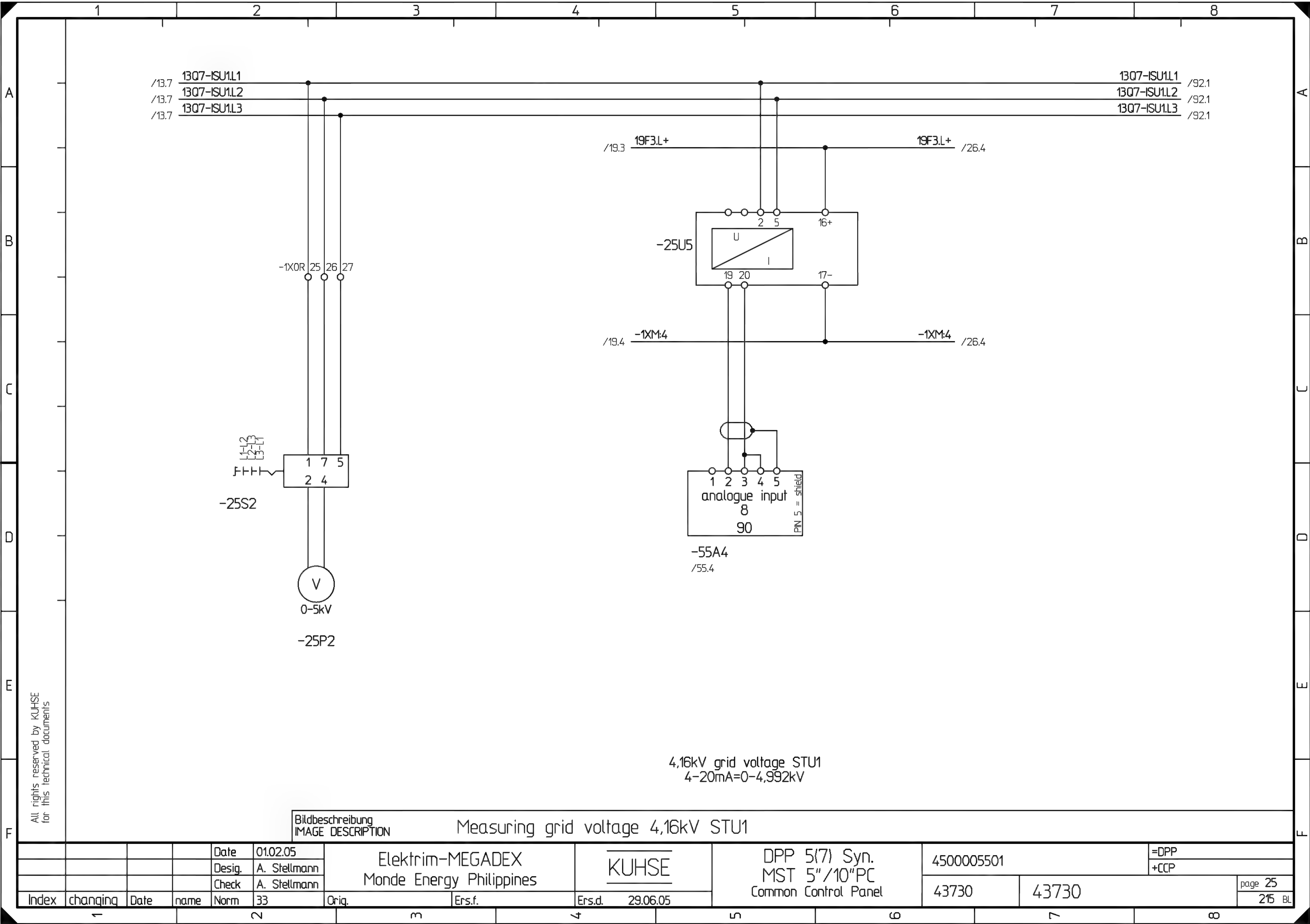
Bildbeschreibung
IMAGE DESCRIPTION spare

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 23 / 215 BL

Bildbeschreibung
IMAGE DESCRIPTION

spare

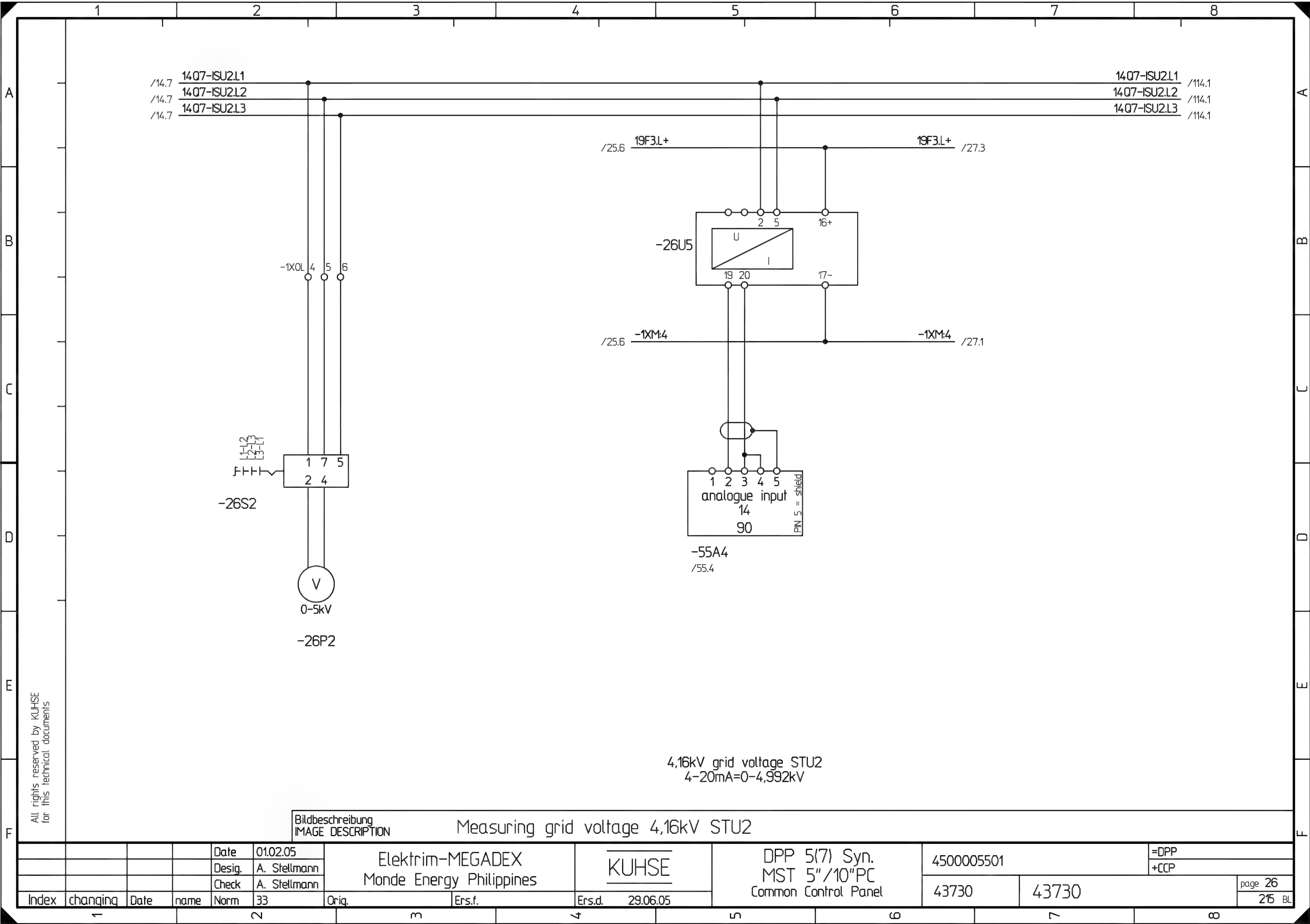
Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730 / 43730	page 24
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			215 BL



Bildbeschreibung
IMAGE DESCRIPTION
Measuring grid voltage 4,16kV STU1

Index	changing	Date	name	Date 01.02.05 / Desig. A. Stellmann / Check A. Stellmann / Norm 33	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501 / 43730	43730	=DPP +CCP

Orig. Ers.f. Ers.d. 29.06.05


1407-ISU2.L1
1407-ISU2.L2
1407-ISU2.L3
/14.7
/114.1
19F3.L+
/25.6
/27.3
-1XM:4
/27.1
-26U5
16+
17-
19 20
U
I
-1X0L 4 5 6
1 7 5
2 4
L1-L2
L2-L3
L3-L1
-26S2
V
0-5kV
-26P2
1 2 3 4 5
analogue input
14
90
PIN 5 = shield
-55A4
/55.4
4,16kV grid voltage STU2
4-20mA=0-4,992kV
Bildbeschreibung
IMAGE DESCRIPTION
Measuring grid voltage 4,16kV STU2
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 26
215 BL

/8.4 8F4:L1 — 8F4:L1
/8.5 8F5:L2 — 8F5:L2
/8.6 8F6:L3 — 8F6:L3
/20.6 20F6.L+ — 20F6.L+ /28.1
/26.6 19F3.L+ — 19F3.L+ /28.3

-27F1
A1 L1 L2 12 14 22 24
IR470LY-4021
100kOhm, nc
A2 KE PE 11 21

-39X1
/39.1
DE6 general
20
DE6 general

/19.8 PE — PE /28.1
/26.6 -1XM:4 — -1XM:4 /28.1

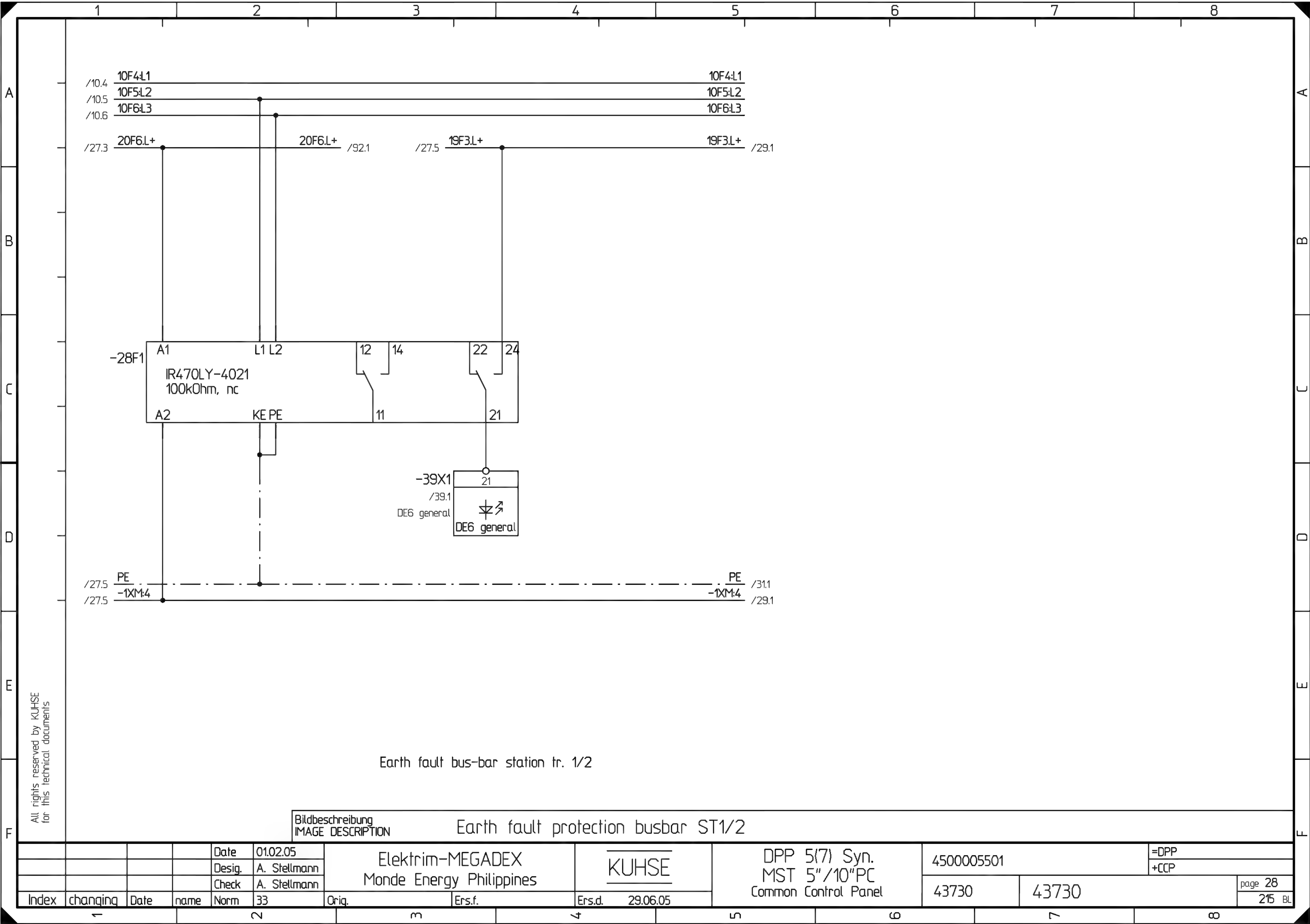
Earth fault bus-bar gen. Ca.1-3 n.c.

Bildbeschreibung
IMAGE DESCRIPTION

Earth fault protection busbar CAT1-3

Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
Desig.	A. Stellmann					
Check	A. Stellmann				43730	43730
Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

Index	changing	Date	name



/10.4 10F4:L1
/10.5 10F5:L2
/10.6 10F6:L3
/27.3 20F6.L+
20F6.L+ /92.1
/27.5 19F3.L+
19F3.L+ /29.1
-28F1
A1
L1 L2
12 14
22 24
IR470LY-4021
100kOhm, nc
A2
KE PE
11
21
-39X1
/39.1
DE6 general
21
DE6 general
/27.5 PE
/27.5 -1XM:4
PE /31.1
-1XM:4 /29.1
Earth fault bus-bar station tr. 1/2
Bildbeschreibung
IMAGE DESCRIPTION
Earth fault protection busbar ST1/2
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Index changing Date name Norm 33
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 28
215 BL
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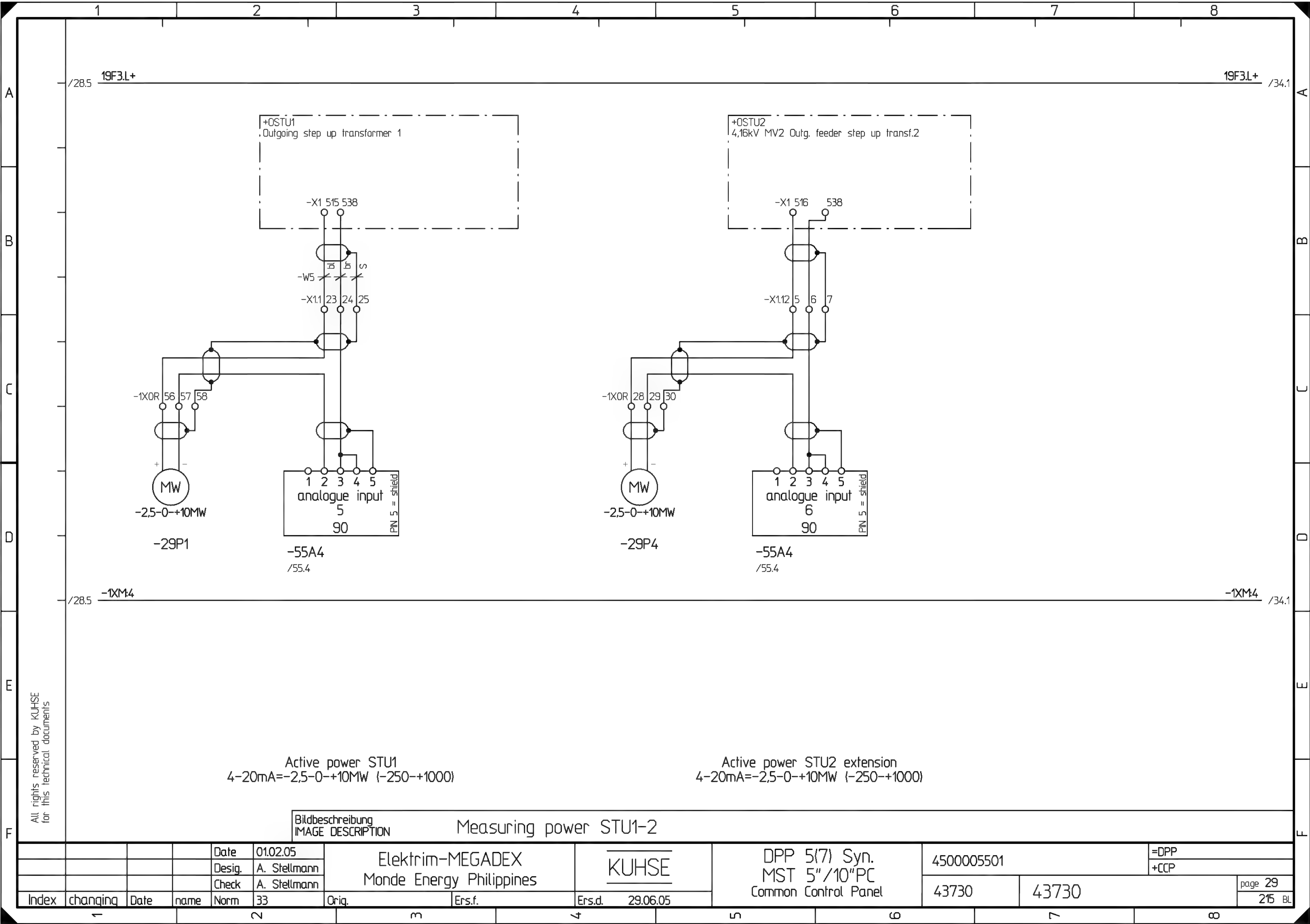


Bildbeschreibung IMAGE DESCRIPTION	Measuring power STU1-2									
			Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP	
			Desig.	A. Stellmann						
			Check	A. Stellmann				43730	43730	page 29
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05		215 BL

+ISDT
Incoming step down transformer 4,16kV

-X1 516 538

-W14 bl br S

-X1.9 22 23 24

1 2 3 4 5
analogue input
7
90
PIN 5 = shield

-55A4
/55.4

Active power SDT
4-20mA=-1,15-0-+4,6MW (-1150-+4600)

Bildbeschreibung
IMAGE DESCRIPTION spare

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. Ers.f.	Ers.d. 29.06.05			page 30 215 BL

Bildbeschreibung IMAGE DESCRIPTION	PC external

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

/19.1 19F1.L+ — 19F1.L+ /43.1

-32A1 BHKS

/33.1
/34.1
/36.1
/38.1
/40.1
/39.1
/35.1
/37.1
/41.1

slot 1

POWER +5V

L+

L-

slot 7

placing from
slot 13 on

slide-in rack3HE / 84TE

/19.2 -1XM:2 — -1XM:2 /43.1

wiring 2.5 mm2
curr.path 2

Bildbeschreibung
IMAGE DESCRIPTION

BHKS 68000 STPL 01-07, power supply unit

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 32 215 BL

BHKS
-32A1 ART.-NUMMER slot 13
/32.1 3196030100 CPU-68000 (4TE)
COD.:
A B
-32A1-A1

ART.-NUMMER

OFC-BHKC-KDM
/45.5

Bildbeschreibung
IMAGE DESCRIPTION
BHKS 68000 slot13-17, CPU

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines		KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann						
				Check	A. Stellmann					43730	43730
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05			page 33 / 215 BL

BHKS

-32A1 /32.1

ART.-NUMMER slot 21

3198060101 COD.: 0 EIN-68000-30 (STECKER)

-32A1-A3

Terminal	Ref.	Function
01	/61.5	Emergency off
02	/90.2	Selector switch manual c.b control
03	/90.4	Step up transf.1 maintenance
04	/72.2	RS gen. S1 cb off
05	/72.4	RS gen. Cu.1 cb off
06	/72.6	RS gen. Ca.1 cb off
07	/72.8	RS gen. Ca.2 cb off
08	/73.2	RS gen. Ca.3 cb off
09	/73.4	RS gen. Cu.2 cb off
10	/73.6	RS gen. S2 cb off
11	/73.8	BG c.b. off
12	/92.6	Grid under-/over voltage
13	/92.7	Grid under-/over frq.
14	/92.8	Grid protection unit fault
15	/92.5	Grid failure
16	/154.1	speed < genset STU1-2
17	/154.2	speed > genset STU1-2
18	/107.1	4,16kV c.b. STU1 off
19	/107.3	4,16kV c.b. STU1 on
20	/107.6	4,16kV c.b. STU1 in service
21	/108.2	4,16kV c.b STU1 protection fault n.o.
22	/108.4	4,16kV c.b STU1 protection trip. n.o.
23	/108.6	4,16kV STU1 earth fault n.o.
24	/98.4	SS tap changer STU1 manual
25	/91.1	Release island operation
26	/107.4	m.c.b. tripped panel +OSTU1 n. o.
27	/90.6	Step up transf.2 maintenance
28	/63.2	Alarm off /Reset +CCP
29	/63.4	Horn off
30	/63.5	lamps test

-34X1 DI 1

31+ 32-

ART.-NUMMER Slot 25

3101120100 COD.: 0 LWL-68000 (4TE)

-32A1-A10

Terminal	Cable	Type	Target	Description
A	=.GCPS1-W22	2xLWL	=.GCPS1/35.2	Data coupling MST GCPS1
B	=.GCPCU1-W22	2xLWL	=.GCPCU1/31.2	Data coupling MST GCPCU1
C	=.GCPCA1-W16	2xLWL	=.GCPCA1/18.2	Data coupling MST GCPCA1
D	=.GCPCA2-W17	2xLWL	=.GCPCA2/18.2	Data coupling MST GCPCA2

/29.8 19F3.L+ — 19F3.L+ /35.1

/29.8 -1XM:4 — -1XM:4 /35.1

Bildbeschreibung IMAGE DESCRIPTION BHKS 68000 slot 21-25, DI1, OFC1

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
				Norm	33	Orig. / Ersf.	Ersd. 29.06.05			

BHKS
-32A1 /32.1

ART.-NUMMER slot 29
3198060101 COD.: 1 EIN-68000-30 (STECKER)
-32A1-A4
DI2

Terminal	Reference	Description
01	/176.7	M.c.b. tripped +CCP
02	/178.2	Selector sw. c.b. contr. +IST1/2 in release
03	/178.3	C.b. +IST1 tripped n.o.
04	/178.4	M.c.b. tripped +IST1 n.c.
05	/182.2	C.b. +IST2 tripped n.o.
06	/186.2	Selector sw. c.b. contr. +IST3 in release
07	/186.3	C.b. +IST3 tripped n.o.
08	/186.4	M.c.b. tripped +IST3 n.c.
09		
10	/100.2	Motor drive unit step up transf. 1 fault
11	/100.3	Motor drive unit step up transf. 1 in remote
12	/93.3	34,5kV c.b. STU1 on
13	/93.5	34,5kV c.b. STU1 off
14		
15		
16		
17	/101.5	STU1 buchholz alarm
18	/101.7	STU1 buchholz trip
19		
20	/102.3	STU1 OLTC over temp. trip n.c.
21	/102.5	STU1 oil temp. alarm
22	/102.7	STU1 oil temp. trip
23	/103.2	STU1 overpressure
24	/104.4	spare
25		
26	/103.3	STU1 oil level min n.o.
27	/103.5	STU1 oil level max n.c.
28	/103.7	STU1 tap changer oil level min n.o.
29	/104.2	STU1 tap changer oil level max n.c.
30		

-35X1 DI2
31+ 32-

ART.-NUMMER Slot 33
3101120100 COD.: 1 LWL-68000 (4TE)
-32A1-A11
A B C D

=.GCPCA3-W17
2xLWL
=.GCPCA3/18.2

Data coupling MST GCPCA3

Data coupling MST GCPCU2

Data coupling MST GCPS2

/34.8 19F3.L+ — 19F3.L+ /36.1
/34.8 -1XM:4 — -1XM:4 /36.1

Bildbeschreibung
IMAGE DESCRIPTION
BHKS 68000 slot 29-33, DI2, OFC2

Index	changing	Date	name							
				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05		

BHKS
-32A1 /32.1

ART.-NUMMER slot 37
3198060101 COD.: 2
EIN-68000-30 (STECKER)
-32A1-A7
DEI3

Pin	Ref	Signal
01	/114.6	Grid under-/over voltage STU 2
02	/114.7	Grid under-/over frq. STU 2
03	/114.7	Protection unit STU2 fault
04	/114.5	Grid failure STU 2
05	/115.3	34,5kV c.b. STU2 on
06	/115.5	34,5kV c.b. STU2 off
07	/120.4	SS tap changer STU2 manual
08	/122.2	Motor drive unit step up transf. 2 fault
09	/122.3	Motor drive unit step up transf. 2 in remote
10		
11	/123.5	STU2 buchholz alarm
12	/123.7	STU2 buchholz trip
13	/124.3	STU2 OLTC over temp. trip n.c.
14	/124.5	STU2 oil temp. alarm
15	/124.7	STU2 oil temp. trip
16	/125.2	STU2 overpressure
17	/125.3	STU2 oil level min n.o.
18	/125.5	STU2 oil level max n.c.
19	/125.7	STU2 tap changer oil level min n.o.
20	/126.2	STU2 tap changer oil level max n.c.
21	/126.3	
22	/126.4	
23		
24		
25	/129.1	4,16kV c.b. STU2 off
26	/129.3	4,16kV c.b. STU2 on
27	/129.6	4,16kV c.b. STU2 in service
28	/130.2	4,16kV c.b STU2 protection fault n.o.
29	/130.4	4,16kV c.b STU2 protection trip. n.o.
30	/105.1	kWh counter STU1 125l/1664kWh
	/127.1	kWh counter STU2 125l/1664kWh

-36X2 DEI3
31+ 32-

ART.-NUMMER Slot 41
3101120100 COD.: 2
LWL-68000 (4TE)
-32A1-A12
A B C D

A: OFC-KANI-1 /55.2
B: -W27 2xLWL =CA/13.4
C: OFC-KSAR-BHK /48.1

Data coupling +CA

/35.8 19F3.L+ /37.1
/35.8 -1XM4 /37.1

Bildbeschreibung
IMAGE DESCRIPTION
BHKS 68000 slot 37-41, DI3, OFC3

Index	changing	Date	name				
				Date	01.02.05	Elektrim-MEGADEX	KUHSE
				Desig.	A. Stellmann	Monde Energy Philippines	
				Check	A. Stellmann		
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501
43730 43730

=DPP
+CCP

BHKS
-32A1 ART.-NUMMER slot 45
/32.1
-32A1-A8
3198060101 EIN-68000-30 (STECKER)
COD.: 3

DI4

Pin	Ref	Signal
01	/104.3	spare
02	/130.6	4,16kV STU2 earth fault n.o.
03	/129.5	m.c.b. tripped panel +OSTU2 n. o.
04		
05	/136.1	ccb off
06	/136.3	ccb on
07	/136.5	m.c.b. tripped panel +CCB n. o.
08	/136.6	4,16kV c.c.b. in service
09		
10	/143.1	4,16kV step down transf. c. b. off
11	/143.2	4,16kV step down transf. c. b. on
12	/143.6	4,16kV step down transf. c. b. service
13	/144.2	4,16kV c.b. step down transf. prot. fault
14	/144.4	4,16kV c.b. step down transf. prot. trip.
15	/144.6	4,16kV c.b. step down transf. earth fault
16	/143.4	4,16kV c.b. step down tr. m.c.b. tripped
17	/149.1	Step down tr. oiltemp. max alarm
18	/149.2	Step down tr. oiltemp. max tripped n.c.
19	/149.3	Step down tr. oil level low n.c.
20	/149.6	Step down tr. overpressure n.c.
21	/154.5	speed < BG
22	/154.6	speed > BG
23	/181.3	Push button ST1 on
24	/181.6	Push button ST1 off
25	/185.3	Push button ST2 on
26	/185.6	Push button ST2 off
27		
28		
29		
30		

-37X1 DI4
31+ 32-

ART.-NUMMER

/36.8 19F3.L+ — 19F3.L+ /38.1
/36.8 -1XM:4 — -1XM:4 /38.1

Bildbeschreibung IMAGE DESCRIPTION: BHKS 68000 slot 45-49, DI4

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730 / 43730	page 37
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			215 BL

BHKS
-32A1 ART.-NUMMER Slot 53
/32.1
3198060101
COD.: 4
EIN-68000-30 (STECKER)
-32A1-A16
DI5

ART.-NUMMER

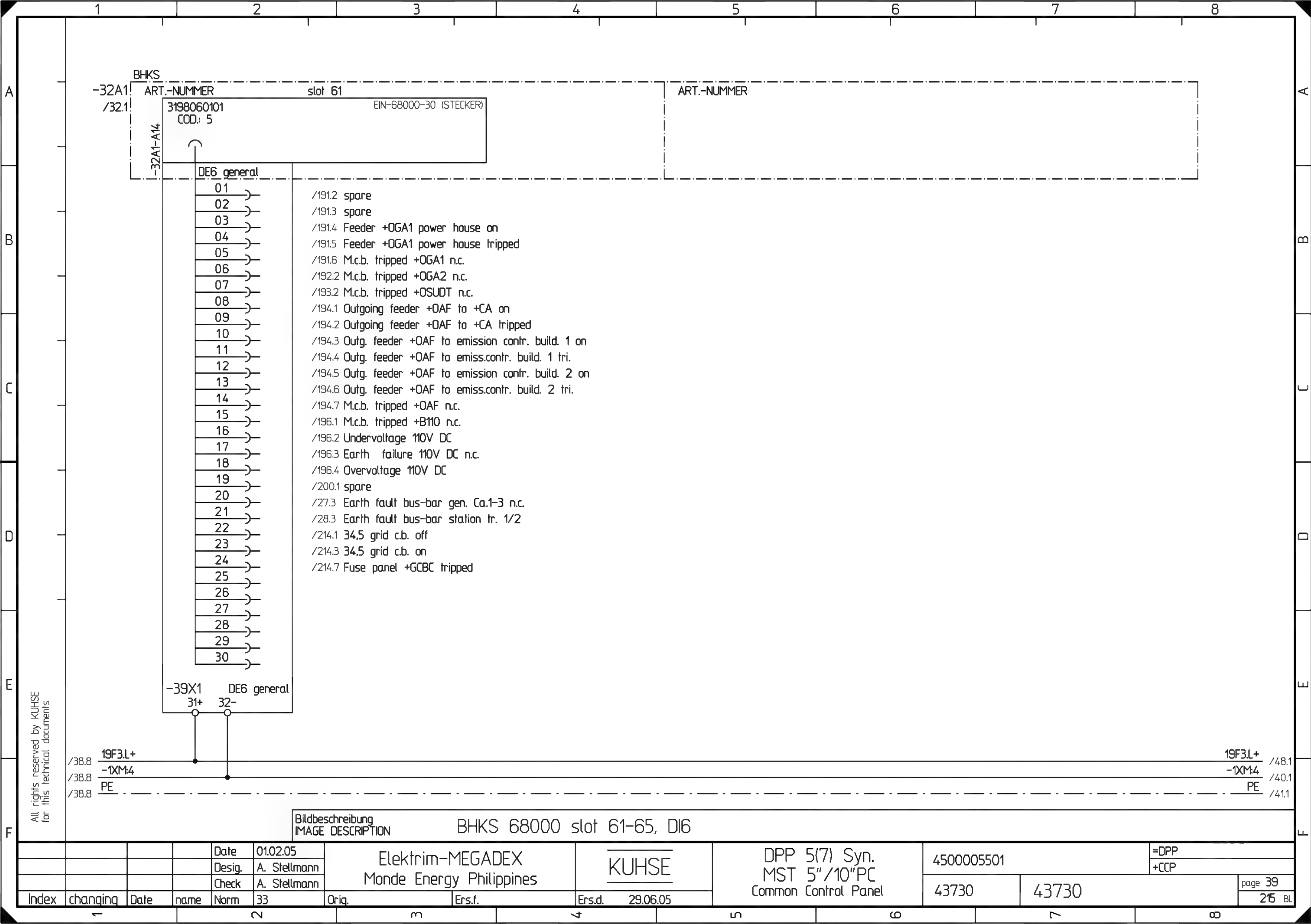
Pin	Ref.	Signal
01	/157.2	4,16kV OST1 c.b. on
02	/157.4	4,16kV OST1 earthing switch off
03	/158.2	4,16kV OST1 HV fuse tripped
04	/158.4	4,16kV OST1 m.c.b. tripped
05	/159.1	Station tr. 1 oiltemp. max alarm
06	/159.2	Station tr. 1 oiltemp. max tripped n.c.
07	/159.3	Station tr. 1 oil level low n.c.
08	/159.6	Station tr. 1 overpressure n.c.
09	/179.6	LV c.b. station tr. 1 on
10	/163.2	4,16kV OST2 c.b. on
11	/163.4	4,16kV OST2 earthing switch off
12	/164.2	4,16kV OST2 HV fuse tripped
13	/164.4	4,16kV OST2 m.c.b. tripped
14	/165.1	Station tr. 2 oiltemp. max alarm
15	/165.2	Station tr. 2 oiltemp. max tripped n.c.
16	/165.3	Station tr. 2 oil level low n.c.
17	/165.6	Station tr. 2 overpressure n.c.
18	/183.6	LV c.b. station tr. 2 on
19	/169.2	4,16kV OST3 c.b. on
20	/169.4	4,16kV OST3 earthing switch off
21	/170.2	4,16kV OST3 HV fuse tripped
22	/170.4	4,16kV OST3 m.c.b. tripped
23	/171.1	Station tr. 3 oiltemp. max alarm
24	/171.2	Station tr. 3 oiltemp. max tripped n.c.
25	/171.3	Station tr. 3 oil level low n.c.
26	/171.6	Station tr. 3 overpressure n.c.
27	/179.3	LV c.b. station tr. 1 off
28	/183.2	LV c.b. station tr. 2 off
29	/187.2	LV c.b. station tr. 3 off
30		

-38X2 DI5
31+ 32-

/37.8 19F3.L+ — 19F3.L+ /39.1
/37.8 -1XM:4 — -1XM:4 /39.1
/31.5 PE — PE /39.1

Bildbeschreibung
IMAGE DESCRIPTION
BHKS 68000 slot 53-57, DI5

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. Ers.f.	Ers.d. 29.06.05			page 38 215 BL



BHKS
-32A1
/32.1
ART.-NUMMER
slot 61
3198060101
COD.: 5
EIN-68000-30 (STECKER)
-32A1-A14
DE6 general
ART.-NUMMER
01 /191.2 spare
02 /191.3 spare
03 /191.4 Feeder +OGA1 power house on
04 /191.5 Feeder +OGA1 power house tripped
05 /191.6 M.c.b. tripped +OGA1 n.c.
06 /192.2 M.c.b. tripped +OGA2 n.c.
07 /193.2 M.c.b. tripped +OSUDT n.c.
08 /194.1 Outgoing feeder +OAF to +CA on
09 /194.2 Outgoing feeder +OAF to +CA tripped
10 /194.3 Outg. feeder +OAF to emission contr. build. 1 on
11 /194.4 Outg. feeder +OAF to emiss.contr. build. 1 tri.
12 /194.5 Outg. feeder +OAF to emission contr. build. 2 on
13 /194.6 Outg. feeder +OAF to emiss.contr. build. 2 tri.
14 /194.7 M.c.b. tripped +OAF n.c.
15 /196.1 M.c.b. tripped +B110 n.c.
16 /196.2 Undervoltage 110V DC
17 /196.3 Earth failure 110V DC n.c.
18 /196.4 Overvoltage 110V DC
19 /200.1 spare
20 /27.3 Earth fault bus-bar gen. Ca.1-3 n.c.
21 /28.3 Earth fault bus-bar station tr. 1/2
22 /214.1 34,5 grid c.b. off
23 /214.3 34,5 grid c.b. on
24 /214.7 Fuse panel +GCBC tripped
25
26
27
28
29
30
-39X1
DE6 general
31+
32-
/38.8 19F3.L+
/38.8 -1XM:4
/38.8 PE
19F3.L+ /48.1
-1XM:4 /40.1
PE /41.1

Bildbeschreibung
IMAGE DESCRIPTION
BHKS 68000 slot 61-65, DI6
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 39
215 BL

BHKS
-32A1 ART.-NUMMER
/32.1 -32A1-A19
4TE-3HE

ART.-NUMMER slot 73
-32A1-A6
3198050102
COD.: 0
AUS-68000-30 (STECKER)

Pin	Ref.	Function
01	/84.1	blocking gen. S1 off
02	/84.2	blocking gen. Cu1 off
03	/84.3	blocking gen. Ca1 off
04	/84.4	blocking gen. Ca2 off
05	/84.5	blocking gen. Ca3 off
06	/84.6	blocking gen. 6 off
07	/84.7	blocking gen. S2 off
08	/85.1	Gen. S1,Ca-3,Cu1-2 forced off
09	/85.3	Gen. S2 forced off
10	/67.1	common alarm +CCP alarm
11	/67.3	common alarm +CCP stop
12	/151.1	release KSY STU1-2
13	/110.3	sy. select'n busbar cb STU1
14	/204.4	Panel fan on +CCP
15	/151.2	release KSY ST1-2
16	/110.4	4,16kV c.b. STU1 on
17	/110.5	4,16kV c.b. STU1 off
18	/63.7	CHPP horn
19	/181.1	Syn. selection ST1 c.b
20	/181.8	LED Syn. selection ST1 c.b
21	/126.8	spare
22	/205.1	Panel fan +IST1/2 on
23	/205.3	Panel fan +OSUDT on
24	/205.5	Panel fan +IST3 on (option)
25	/205.7	Panel fan +OGA1 on
26	/206.1	Panel fan +OGA2 on
27	/206.3	Panel fan +OAF on
28	/206.5	Panel fan +B110 on
29	/207.7	Lamp common alarm +CA
30	/63.8	LM common alarm

-40X5 DA 1 BHKS 1
31+ 32-

/19.7 19F7.L+ /41.1
/39.8 -1XM:4 /41.1

Bildbeschreibung
IMAGE DESCRIPTION
BHKS 68000 slot 69-73, D01

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann				43730	43730
				Check	A. Stellmann	Orig.	Ers.f.	Ers.d. 29.06.05		page 40
				Norm	33					215 BL

BHKS
-32A1 ART.-NUMMER
/32.1

ART.-NUMMER slot 81
3198050102 COD.: 1
AUS-68000-30 (STECKER)
-32A1-A13

Pin	Ref.	Function
01	/185.1	Syn. selection ST2 c.b
02	/185.8	LED Syn. selection ST2 c.b
03	/98.1	STU1 tap changer increase
04	/98.2	STU1 tap changer decrease
05	/120.1	STU2 tap changer increase
06	/120.2	STU2 tap changer decrease
07	/210.1	Load shedding step 1
08	/210.2	Load shedding step 2
09	/210.3	Load shedding step 3
10	/210.4	Load shedding step 4
11	/210.5	Load shedding step 5
12	/210.6	Load shedding step 6
13	/210.7	Load shedding step 7
14	/132.4	sy. select'n rails STU2
15	/132.5	4,16kV c.b. STU2 on
16	/132.6	4,16kV c.b. STU2 off
17	/210.8	Load shedding step 8
18	/211.1	Load shedding step 9
19	/211.2	Load shedding step 10
20	/211.3	Load shedding step 11
21	/211.4	Load shedding step 12
22	/211.5	Load shedding step 13
23	/211.6	Load shedding step 14
24	/211.7	Load shedding step 15
25	/211.8	Load shedding step 16
26	/215.1	Release KSY grid
27	/215.2	KSY grid on
28	/215.3	Grid c.b. on
29	/215.4	Grid c.b. off
30		

-41X5 DA2 BHKS 1
31+ 32-

/40.8 19F7.L+ /52.1
/40.8 -1XM:4 /48.1
/39.8 PE /55.1

Bildbeschreibung
IMAGE DESCRIPTION
BHKS 68000 slot 77-81, D02

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines
Orig. Ers.f. Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501
43730 43730

=DPP
+CCP

Bildbeschreibung
IMAGE DESCRIPTION
spare

/32.8 19F1.L+

19F1.L+

-43A1

slot 1

L+

POWER +5V

L-

slot 7

placing from
slot 13 on

slide-in rack3HE / 84TE

/44.1
/45.1
/46.1
/47.1
/48.1
/49.1
/50.1
/51.1
/52.1

/32.8 -1XM:2

-1XM:2

wiring 2.5 mm2
curr.path 2

Bildbeschreibung
IMAGE DESCRIPTION

KDM power supply unit SLOT 01

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 43 215 BL

-43A1 /43.1

-43A1-A1

ART.-NUMMER slot 13

3196030100 CPU-68000 (4TE)

COD.:

A B

OFC-PC-KDM /31.5

-43A1-A2

ART.-NUMMER Slot 17

3197020104 SPEICHERKARTE OHNE MEMORY CARD

-43A1-A2-A1

MEMORY-CARD 256KB (128K X 16BIT) SRAM

Bildbeschreibung IMAGE DESCRIPTION: KDM slot 13-17, CPU

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

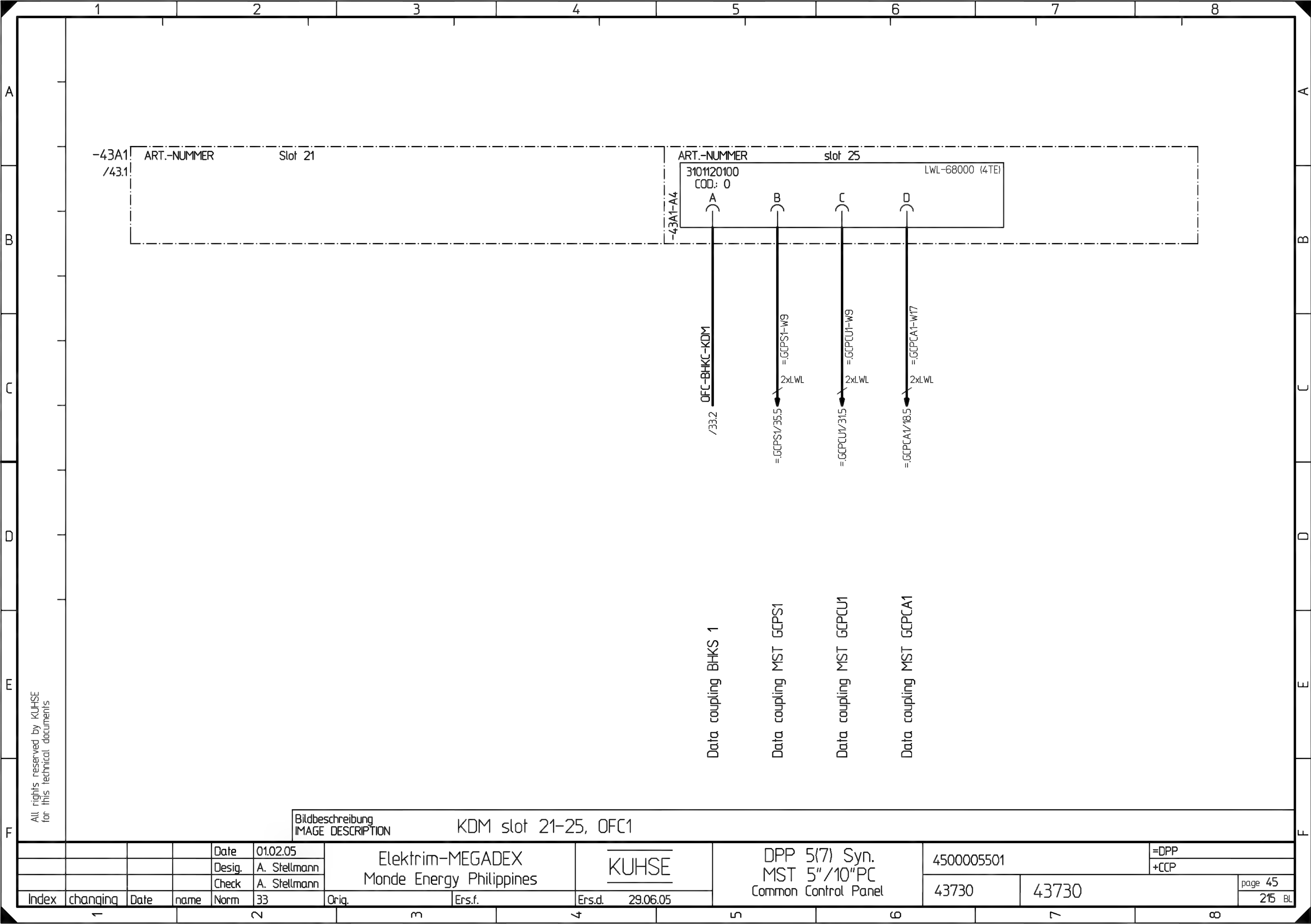
KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP



-43A1
/43.1
ART.-NUMMER
Slot 21
ART.-NUMMER
slot 25
3101120100
COD.: 0
LWL-68000 (4TE)
-43A1-A4
A
B
C
D
OFC-BHKC-KDM
/33.2
=.GCPS1-W9
2xLWL
=.GCPS1/35.5
=.GCPCU1-W9
2xLWL
=.GCPCU1/31.5
=.GCPCA1-W17
2xLWL
=.GCPCA1/18.5
Data coupling BHKS 1
Data coupling MST GCPS1
Data coupling MST GCPCU1
Data coupling MST GCPCA1
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Bildbeschreibung
IMAGE DESCRIPTION
KDM slot 21-25, OFC1
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 45
215 BL

-43A1 /43.1

-43A1-A5 ART.-NUMMER slot 29
3101120100 COD.: 1 LWL-68000 (4TE)
A B C D

=.GCPCA2-W18 2xLWL =.GCPCA2/18.5
=.GCPCA3-W18 2xLWL =.GCPCA3/18.5

-43A1-A6 ART.-NUMMER slot 33
3101120100 COD.: 2 LWL-68000 (4TE)
A B C D

-W28 2xLWL =.CA/13.4
OFC-KSAR-KDM /48.5

Data coupling MST GCPCA2
Data coupling MST GCPCA3
Data coupling MST GCPCU2
Data coupling MST GCPS2
Data coupling +CA

Bildbeschreibung IMAGE DESCRIPTION: KDM SLOT 29-33 OFC2, OFC3

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

-43A1
/43.1

ART.-NUMMER
-43A1-A17
4TE-3HE

ART.-NUMMER
-43A1-A18
4TE-3HE

Bildbeschreibung
IMAGE DESCRIPTION
KDM SLOT 37-41

				Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 47 / 215 BL

-43A1 /43.1

ART.-NUMMER
3196030100
COD.:
CPU-68000 (4TE)
-43A1-A19
A B

special bus seperation without 1,32AC
OFC-KSAR-BHK /36.6

ART.-NUMMER plug in place 49
3101120100
COD.: 0
LWL-68000 (4TE)
-43A1-A21
A B C D

OFC-KSAR-KDM /46.5

/39.8 19F3.L+ /49.1
/41.8 -1XM:4 /49.1

Bildbeschreibung IMAGE DESCRIPTION: KDM STPL 45-49, KSAR-ION6200 meter

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 48 / 215 BL

Bildbeschreibung IMAGE DESCRIPTION: KDM STPL 53-57, Interface modbus

Index	changing	Date	name	Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501
43730 | 43730

=DPP
+CCP

-43A1 ART.-NUMMER
/43.1 -43A1-A15
4TE-3HE

ART.-NUMMER

/49.8 19F3.L+ /51.1
/49.8 -1XM:4 /51.1

Bildbeschreibung
IMAGE DESCRIPTION
KDM slot 61-65

			Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
			Desig.	A. Stellmann					
			Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05	page 50 / 215 BL

-43A1 ART.-NUMMER
/43.1 -43A1-A14
4TE-3HE

ART.-NUMMER

/50.8 19F3.L+ → 19F3.L+ /63.1
/50.8 -1XM:4 → -1XM:4 /52.1

Bildbeschreibung
IMAGE DESCRIPTION
KDM slot 69-73

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines		KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501		=DPP +CCP
				Desig.	A. Stellmann							
				Check	A. Stellmann					43730	43730	page 51
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05				215 BL

-43A1 /43.1 ART.-NUMMER

ART.-NUMMER

-43A1-A13
4TE-3HE

special bus seperation
without 1,32AC

/41.8 19F7.L+
/51.8 -1XM:4

19F7.L+ /71.1
-1XM:4 /61.1

Bildbeschreibung
IMAGE DESCRIPTION

KDM slot 77-81

				Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730 / 43730	page 52
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			215 BL

Bildbeschreibung
IMAGE DESCRIPTION
spare

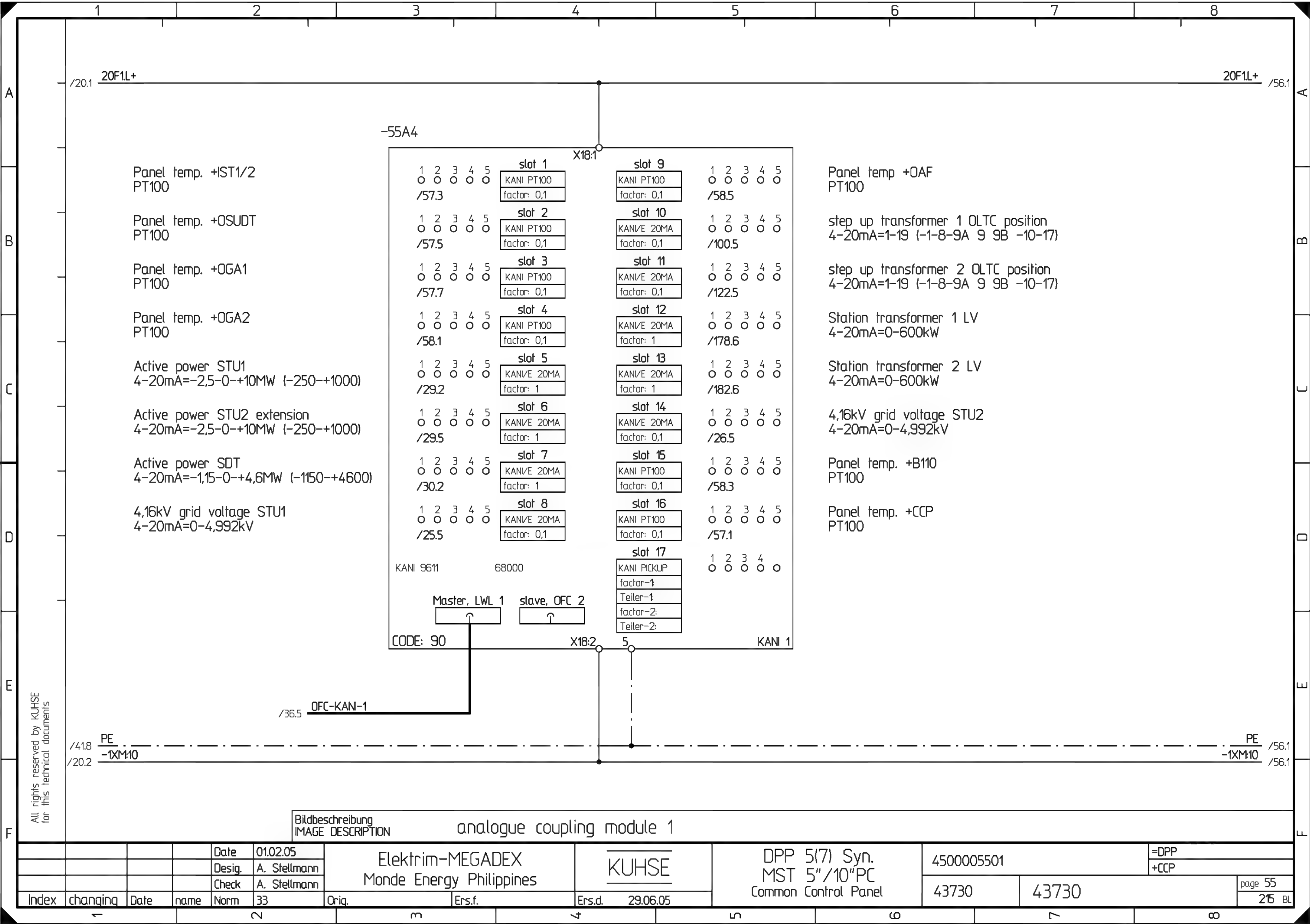
Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
Desig.	A. Stellmann					
Check	A. Stellmann				43730	43730
Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

Index	changing	Date	name

Bildbeschreibung
IMAGE DESCRIPTION

spare

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 54 / 215 BL



Bildbeschreibung
IMAGE DESCRIPTION
analogue coupling module 1

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

/55.8 20F1.L+ — 20F1.L+

/55.8 PE — PE /114.1

/55.8 -1XM:10 — -1XM:10

Bildbeschreibung
IMAGE DESCRIPTION
spare

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

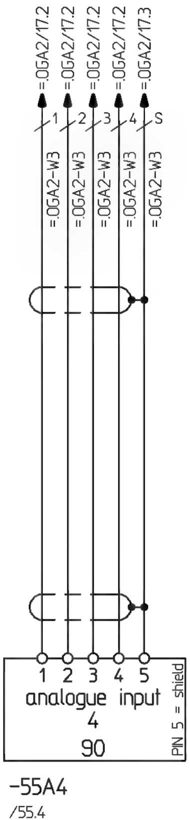
Analogue values plant

Bildbeschreibung / IMAGE DESCRIPTION

Module	Connection	Inputs (pins 1–5)	Cable	Targets
-55A4 /55.4, analogue input 16, 90 (PIN 5 = shield)	Panel temp. +CCP, PT100	-57R1 (1, 2)		
-55A4 /55.4, analogue input 1, 90 (PIN 5 = shield)	Panel temp. +IST1/2, PT100	1, 2, 3, 4, S	=IST1-2-W3	=IST1-2/24.2, =IST1-2/24.2, =IST1-2/24.2, =IST1-2/24.3, =IST1-2/24.3
-55A4 /55.4, analogue input 2, 90 (PIN 5 = shield)	Panel temp. +OSUDT, PT100	1, 2, 3, 4, S	=JCGC1-W3.1	=JCGC1/17.2, =JCGC1/17.2, =JCGC1/17.2, =JCGC1/17.2, =JCGC1/17.3
-55A4 /55.4, analogue input 3, 90 (PIN 5 = shield)	Panel temp. +OGA1, PT100	1, 2, 3, 4, S	=OGA1-W3	=OGA1/14.2, =OGA1/14.2, =OGA1/14.2, =OGA1/14.2, =OGA1/14.3

Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501
Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC	=DPP
Check	A. Stellmann			Common Control Panel	+CCP
Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05	43730 / 43730

Index | changing | Date | name



Panel temp. +B110
PT100

Panel temp. +OGA2
PT100

Panel temp +OAF
PT100

Bildbeschreibung IMAGE DESCRIPTION: Analogue values plant

Index	changing	Date	name	Norm	33
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

Bildbeschreibung
IMAGE DESCRIPTION spare

				Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 59 / 215 BL

Bildbeschreibung
IMAGE DESCRIPTION

Spare

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 60 / 215 BL

19F4.L+ /19.4

19F4.L+ /62.1

-X1 1, -X1 2, -X1 3, -X1 4, -X1 5, -X1 6

-61S1.1 +PLA 11 12

-61S1.2 +PLA 11 12

-61S2.1 +PLA 11 12 21 22

-61S2.2 11 12

-1X0R 31, -1X0R 32

-61K3 .3 emergency stop 1 — 75 76

-61K4 .4 emergency stop 2 — 75 76

-61K3 .3 emergency stop 1 — 87 88

-61K4 .4 emergency stop 2 — 87 88

-34X1 /34.1 01 DI 1

-61K3 A1 A2

-61K4 A1 A2

-1XM:4 /52.8

-1XM:4 /63.1

-61K3 contacts: 13-14 /62.1; 21-22; 31-32; 43-44 /197.1; 53-54; 61-62 /111.4; 75-76 .3; 87-88 .4

-61K4 contacts: 13-14; 21-22 /133.4; 31-32; 43-44; 53-54; 61-62; 75-76 .3; 87-88 .4

emergency off

If no emergency off - plant connected,
install jumpers

emergency off

emergency off

Emergency off

Bildbeschreibung IMAGE DESCRIPTION: control em. stop

Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d.	29.06.05
				Date	01.02.05				
				Desig.	A. Stellmann				
				Check	A. Stellmann				

Elektrim-MEGADEX
Monde Energy Philippines

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

19F4.L+ /61.6 — 19F4.L+ /72.1

-61K3 /61.3 emergency stop 1 (13/14)

-70K1 /70.1 Gen. S1 Cu1,2 off fault (61/62)

-70K8 /70.7 Gen. S2 2 off fault (61/62)

-136K4 /136.4 Ccb on (61/62)

-143K2 /143.2 ISDT.c.b. off (61/62)

-70K4 /70.4 Gen. Cat 1-3 off fault (21/22)

-143K3.2 /143.3 4,16kV ISDT earthing sw. off (21/24)

-70K8 /70.7 Gen. S2 2 off fault (71/72)

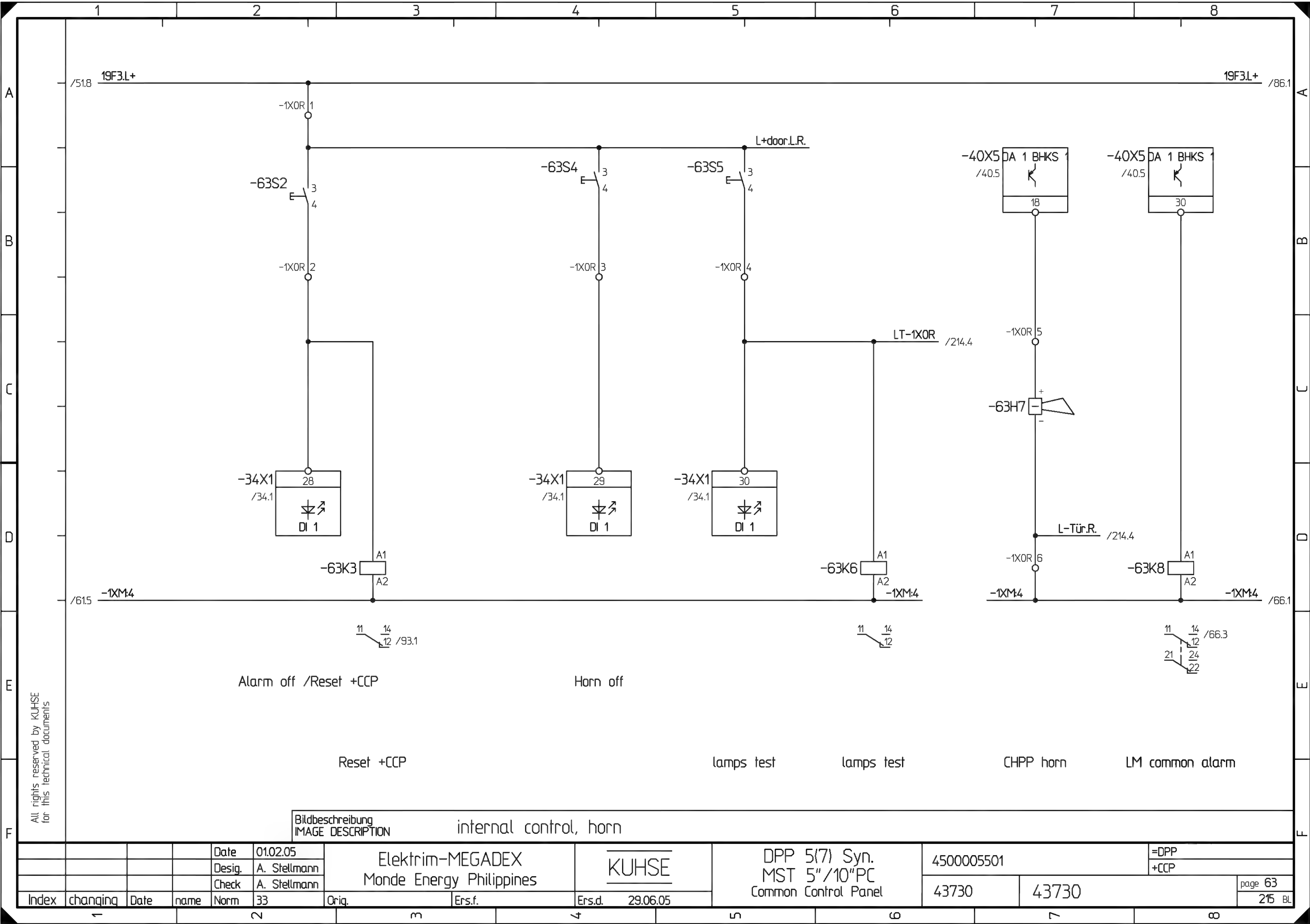
-70K1 /70.1 Gen. S1 Cu1,2 off fault (71/72)

-136K4 /136.4 Ccb on (71/72)

Terminal	Cable	Destination	Function
-X12.1 1	=.GCPS1-W10 1	=.GCPS1/57.5	Emergency off for genset S1
-X12.2 1	=.GCPCU1-W10 1	=.GCPCU1/55.6	Emergency off for genset Cu1
-X12.6 1			Emergency off for genset Cu2
-X12.3 1	=.GCPCA1-WK1 1	=.GCPCA1/30.1	Emergency off for genset Ca1
-X12.4 1	=.GCPCA2-WK1 1	=.GCPCA2/30.1	Emergency off for genset Ca2
-X12.5 1			Emergency off for genset Ca3
-X12.7 1			Emergency off for genset Cu2
-X12.BG 1	=.GCPCA3-WK1 1	=.GCPCA3/30.1	Emergency off for black start gen.

Bildbeschreibung IMAGE DESCRIPTION: control em. stop

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann				43730	43730
				Check	A. Stellmann					
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			



Bildbeschreibung IMAGE DESCRIPTION	internal control, horn

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 63 / 215 BL

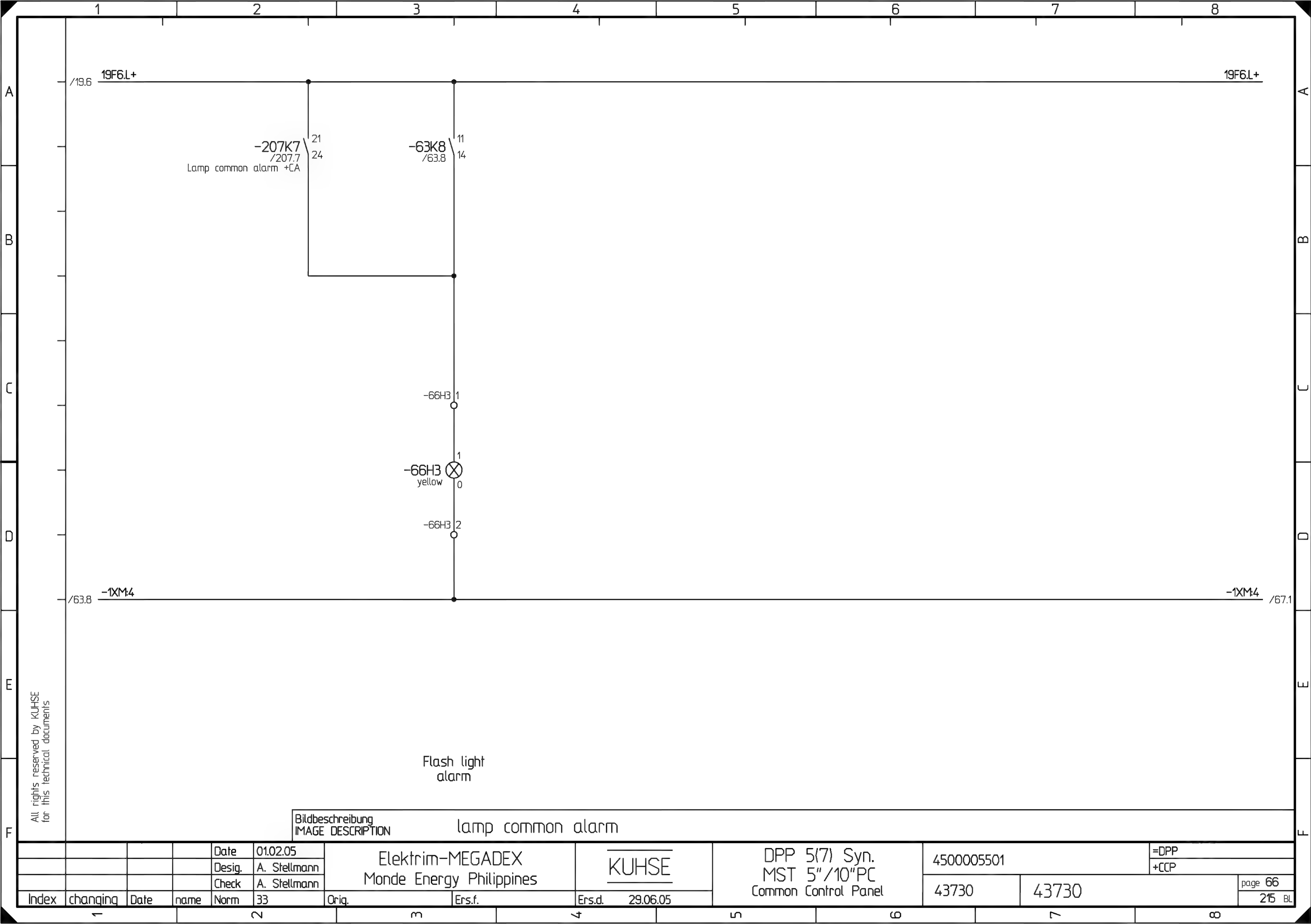
Bildbeschreibung
IMAGE DESCRIPTION

spare

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 64 / 215 BL

Bildbeschreibung
IMAGE DESCRIPTION spare

Index	changing	Date	name						
				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730	page 65
				Norm	33	Orig. Ers.f.	Ers.d. 29.06.05			215 BL


/19.6
19F6.L+
19F6.L+
-207K7
/207.7
Lamp common alarm +CA
21
24
-63K8
/63.8
11
14
-66H3 1
-66H3
yellow
1
0
-66H3 2
/63.8
-1XM:4
-1XM:4
/67.1
Flash light
alarm
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Bildbeschreibung
IMAGE DESCRIPTION
lamp common alarm
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 66
215 BL

-40X5 DA 1 BHKS 1 /40.5 10

-40X5 DA 1 BHKS 1 /40.5 11

-X3 1 — -67K1 11/14 .1 common alarm +CCP alarm — -X3 2

3 — -67K3 11/14 .3 common alarm +CCP stop — 4

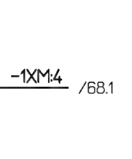
-X3 5 — -176K6 /176.6 11/12 — -X3 6

-X3 11 — -207K7 /207.7 11/14 Lamp common alarm +CA — -X3 12

-67K1 A1 A2

-67K3 A1 A2

/66.8 -1XM:4



11 14 12 .4

11 14 12 .5

M. c. b. tripped
from +CCP

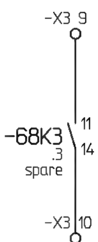
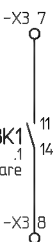
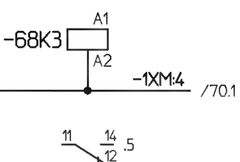
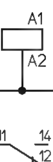
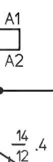
common alarm +CCP alarm

common alarm +CCP stop

Bildbeschreibung
IMAGE DESCRIPTION

Outputs common faults

			Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
			Desig.	A. Stellmann					
			Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05	

-X3 7 -68K1 .1 spare 11 14 -X3 8

-X3 9 -68K3 .3 spare 11 14 -X3 10

-68K1 A1 A2 -1XM:4 /67.8

-68K3 A1 A2 -1XM:4 /70.1

11 14 12 .4

11 14 12 .5

spare

spare

Bildbeschreibung
IMAGE DESCRIPTION

Outputs spare

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 68 / 215 BL

Bildbeschreibung
IMAGE DESCRIPTION
spare

=.GCPS1/48.4
=.GCPS1-W10
-X12.1 5

=.GCPCU1/47.4
=.GCPCU1-W10
-X12.2 5

-X12.6 5

=.GCPCA1/44.4
=.GCPCA1-WK1
-X12.3 5

=.GCPCA2/44.4
=.GCPCA2-WK1
-X12.4 5

-X12.5 5

-X12.7 5

=.GCPCA3/44.4
=.GCPCA3-WK1
-X12.BG 5
+EB

-70K1 A1 A2
-70K4 A1 A2
-70K8 A1 A2
-70K8.1 A1 A2

/68.3 -1XM:4 — -1XM:4 /71.1

-70K1 contacts: 13-14 /111.6; 23-24; 33-34 /147.7; 43-44 /133.7; 53-54; 61-62 /62.1; 71-72 /62.6; 83-84

-70K4 contacts: 13-14; 21-22 /62.4; 31-32; 43-44 /147.4

-70K8 contacts: 13-14 /133.6; 23-24 /111.7; 33-34; 43-44 /147.6; 53-54; 61-62 /62.1; 71-72 /62.7; 83-84

-70K8.1 contacts: 13-14 /181.6; 21-22; 31-32; 43-44 /185.6

Gen. S1 Cu1,2
off fault

Gen. Cat 1-3 off fault

Gen. S2 2
off fault

BG off fault

Bildbeschreibung
IMAGE DESCRIPTION
switching off gen. C.B. 1-7 fault

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 70 / 215 BL

/52.8 19F7.L+ — 19F7.L+ /96.1

/70.8 -1XM:4 — -1XM:4 /72.1

Bildbeschreibung
IMAGE DESCRIPTION spare

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 71 / 215 BL

19F4.L+ /62.6 — 19F4.L+ /73.1

-X12.1 11 — =.GCPS1-W10 11 =.GCPS1/50.2 — =.GCPS1-W10 12 =.GCPS1/50.2 — -X12.1 12 — -34X1 04 /34.1 DI 1 — -72K1 A1 A2

-X12.2 11 — =.GCPCU1-W10 11 =.GCPCU1/49.2 — =.GCPCU1-W10 12 =.GCPCU1/49.2 — -X12.2 12 — -34X1 05 /34.1 DI 1 — -72K3 A1 A2

-X12.3 11 — =.GCPCA1-WK1 11 =.GCPCA1/50.3 — =.GCPCA1-WK1 12 =.GCPCA1/50.3 — -X12.3 12 — -34X1 06 /34.1 DI 1 — -72K5 A1 A2

-X12.4 11 — =.GCPCA2-WK1 11 =.GCPCA2/50.3 — =.GCPCA2-WK1 12 =.GCPCA2/50.3 — -X12.4 12 — -34X1 07 /34.1 DI 1 — -72K7 A1 A2

-1XM:4 /71.8 — -1XM:4 /73.1

-72K1: 13 14 /74.2; 21 22; 33 34 /86.1; 43 44

-72K3: 13 14 /74.2; 21 22; 33 34 /86.3; 44 43

-72K5: 13 14 /74.2; 21 22; 33 34 /86.4; 43 44 /74.4

-72K7: 13 14 /74.2; 21 22; 33 34 /86.5; 43 44 /74.4

RS gen. S1 cb off — RS gen. S1 cb off — RS gen. Cu.1 cb off — RS gen. Cu.1 cb off — RS gen. Ca1 cb off — RS gen. Ca.1 cb off — RS gen. Ca.2 cb off — RS gen. Ca.2 cb off

Bildbeschreibung
IMAGE DESCRIPTION

reply signal generator c.b. 1–4 OFF

Index	changing	Date	name	Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

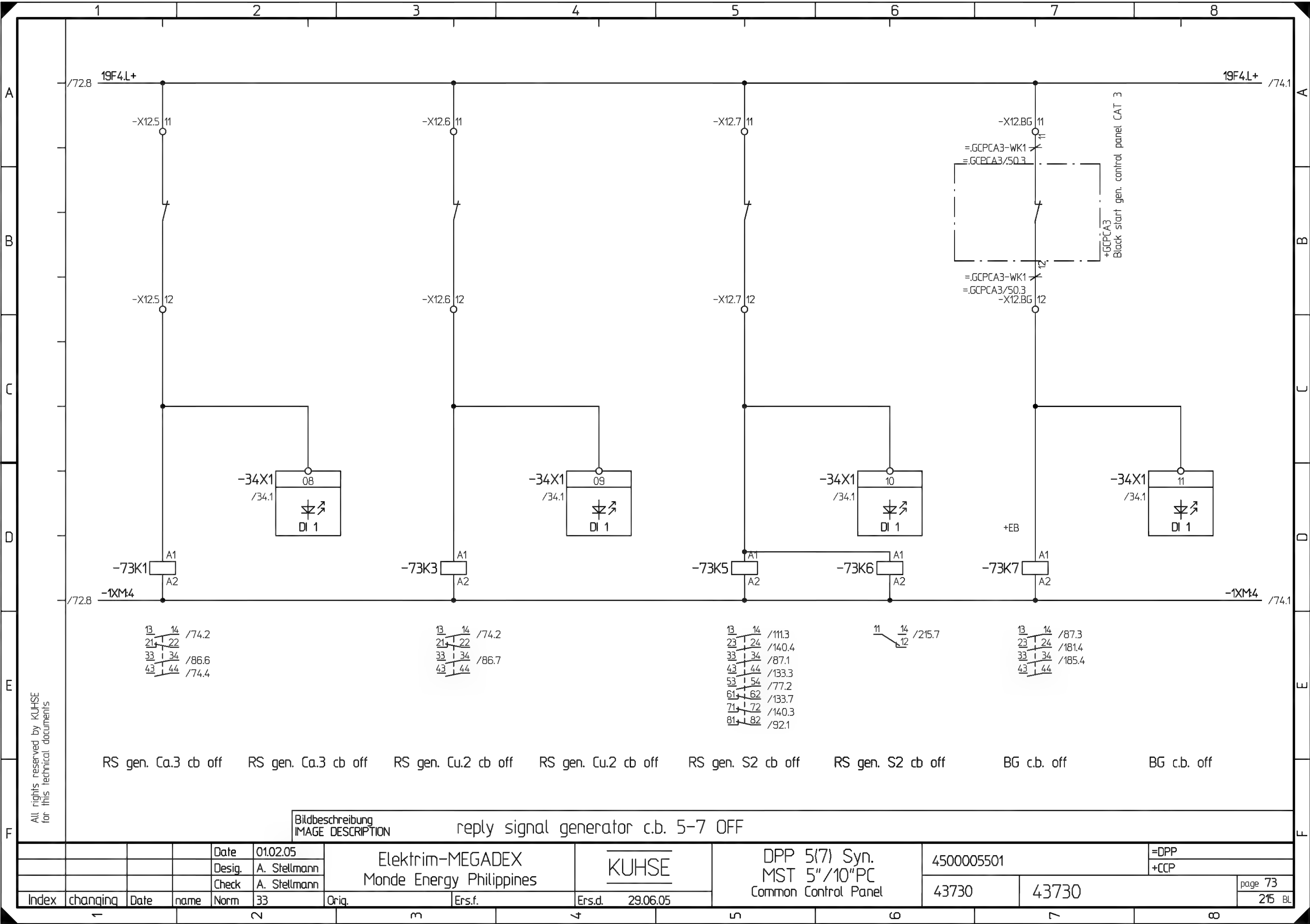
Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

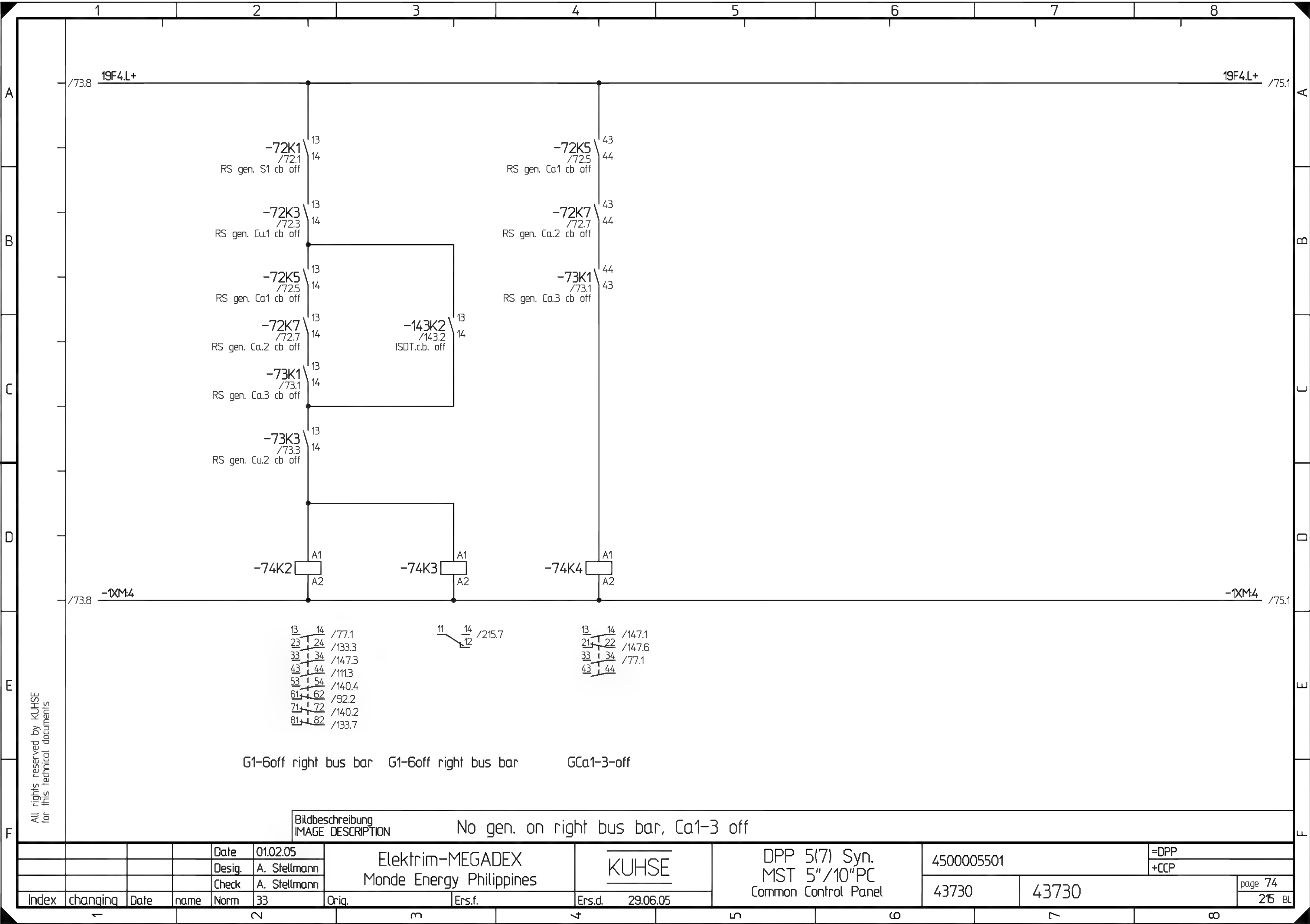
4500005501 — 43730 — 43730

=DPP
+CCP



Bildbeschreibung IMAGE DESCRIPTION reply signal generator c.b. 5-7 OFF

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP
				Desig.	A. Stellmann					+CCP
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. Ers.f.	Ers.d. 29.06.05			



Bildbeschreibung
IMAGE DESCRIPTION
No gen. on right bus bar, Ca1-3 off

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 74 / 215 BL

Interlocking STU c.b. off to BG

19F4.L+ /74.8 — 19F4.L+ /76.1

+EB
-76K8 33/34 /76.8 BG c.b. on

+EB
-107K1 11/14 /107.1 STU1.c.b. off

+EB
-129K1 11/14 /129.1 STU2.c.b. off

-136K3 21/22 /136.3 c.c.b off

+EB
-75K1 A1/A2

-1XM:4 /74.8 — -1XM:4 /76.1

11 14 /181.7 12
21 24 /185.7 22

LV c.b. ST1-2 off

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 75 / 215 BL

Bildbeschreibung
IMAGE DESCRIPTION: Interlocking STU c.b. off to BG

19F4.L+ /75.8 — 19F4.L+ /77.1

-1XM:4 /75.8 — -1XM:4 /82.1

Column	1	2	3	4	5	6	7	8
Terminal 13	-X12.1 13	-X12.2 13	-X12.3 13	-X12.4 13	-X12.5 13	-X12.6 13	-X12.7 13	-X12.BG 13
Contact (13)	=.GCPS1-W10 → =.GCPS1/50.1	=.GCPCU1-W10 → =.GCPCU1/49.1	=.GCPCA1-WK1 → =.GCPCA1/50.2	=.GCPCA2-WK1 → =.GCPCA2/50.2				=.GCPCA3-WK1 =.GCPCA3/50.2
Contact (14)	=.GCPS1-W10 → =.GCPS1/50.1	=.GCPCU1-W10 → =.GCPCU1/49.1	=.GCPCA1-WK1 → =.GCPCA1/50.2	=.GCPCA2-WK1 → =.GCPCA2/50.2				=.GCPCA3-WK1 =.GCPCA3/50.2
Terminal 14	-X12.1 14	-X12.2 14	-X12.3 14	-X12.4 14	-X12.5 14	-X12.6 14	-X12.7 14	-X12.BG 14
Relay (A1/A2)	-76K1	-76K2	-76K3	-76K4	-76K5	-76K6	-76K7	-76K8 (+EB)
Contacts	13-14 /79.1; 23-24 /86.2; 33-34; 43-44	13-14 /79.2; 23-24 /86.3; 33-34; 43-44	13-14 /80.1; 23-24 /86.5; 33-34; 43-44	13-14 /80.2; 23-24 /86.6; 33-34; 43-44	13-14 /80.3; 23-24 /86.7; 33-34; 43-44	13-14 /79.5; 23-24 /86.8; 33-34; 43-44	13-14 /80.5; 23-24 /87.2; 33-34; 43-44; 53-54; 61-62 /147.3; 71-72; 83-84	13-14 /87.4; 23-24 /92.3; 33-34 /75.1; 43-44
Description	RS gen. S1 cb on	RS gen. Cu.1 cb on	RS gen. Ca.1 cb on	RS gen. Ca.2 cb on	RS gen. Ca.3 cb on	RS gen. Cu.2 cb on	RS gen. S2 cb on	BG c.b. on

+GCPCA3
Black start gen. control panel CAT

Bildbeschreibung IMAGE DESCRIPTION: RS gen. 1-7

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann				43730	43730
				Check	A. Stellmann	Orig.	Ers.f.	Ers.d. 29.06.05		
				Norm	33					

19F4.L+ /76.8 — 19F4.L+ /78.1

-74K2 /74.2 G1-6off right bus bar 13 14

-107K2 /107.2 STU1.c.b. off 13 14

-214K2 /214.2 34,5 grid c.b. off 13 14

-74K4 /74.4 GCa1-3-off 33 34

-143K2 /143.2 ISDT.c.b. off 24 23

-136K2 /136.2 c.c.b. off 43 44

-136K2 /136.2 c.c.b. off 61 62

-73K5 /73.5 RS gen. S2 cb off 53 54

-129K2 /129.2 STU2.c.b. off 83 84

-X12.1 3 =.GCPS1-W10 3 =.GCPS1/45.3

=.GCPS1/45.3 2 =.GCPS1-W10 -X12.1 2 -X12.2 3 =.GCPCU1-W10 3 =.GCPCU1/44.3

=.GCPCU1/44.3 2 =.GCPCU1-W10 -X12.2 2 -X12.6 3

-X12.6 2 -X12.3 3 =.GCPCA1-WK1 3 =.GCPCA1/49.3

=.GCPCA1/49.3 2 =.GCPCA1-WK1 -X12.3 2 -X12.4 3 =.GCPCA2-WK1 3 =.GCPCA2/49.3

=.GCPCA2/49.3 2 =.GCPCA2-WK1 -X12.4 2 -X12.5 3

-X12.5 2 -136K2 /136.2 c.c.b. off 71 72 -X12.7 3

-129K2 /129.2 STU2.c.b. off 43 44

-136K3 /136.3 c.c.b off 13 14

-179K1 /179.1 c.b. IST1 off 21 24

-183K1 /183.1 c.b. IST2 off 21 24

-X12.BG 3 =.GCPCA3-WK1 3 =.GCPCA3/49.3

On interlocking generator S1

On interlocking generator Cu1

On interlocking generator Cu2

On interlocking generator Ca1

On interlocking generator Ca2

On interlocking generator Ca3

On interlocking generator S2

* junper must be removed by connection Cu2

Bildbeschreibung IMAGE DESCRIPTION: Interlocking gen. on

Index	changing	Date	name	Norm	33
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

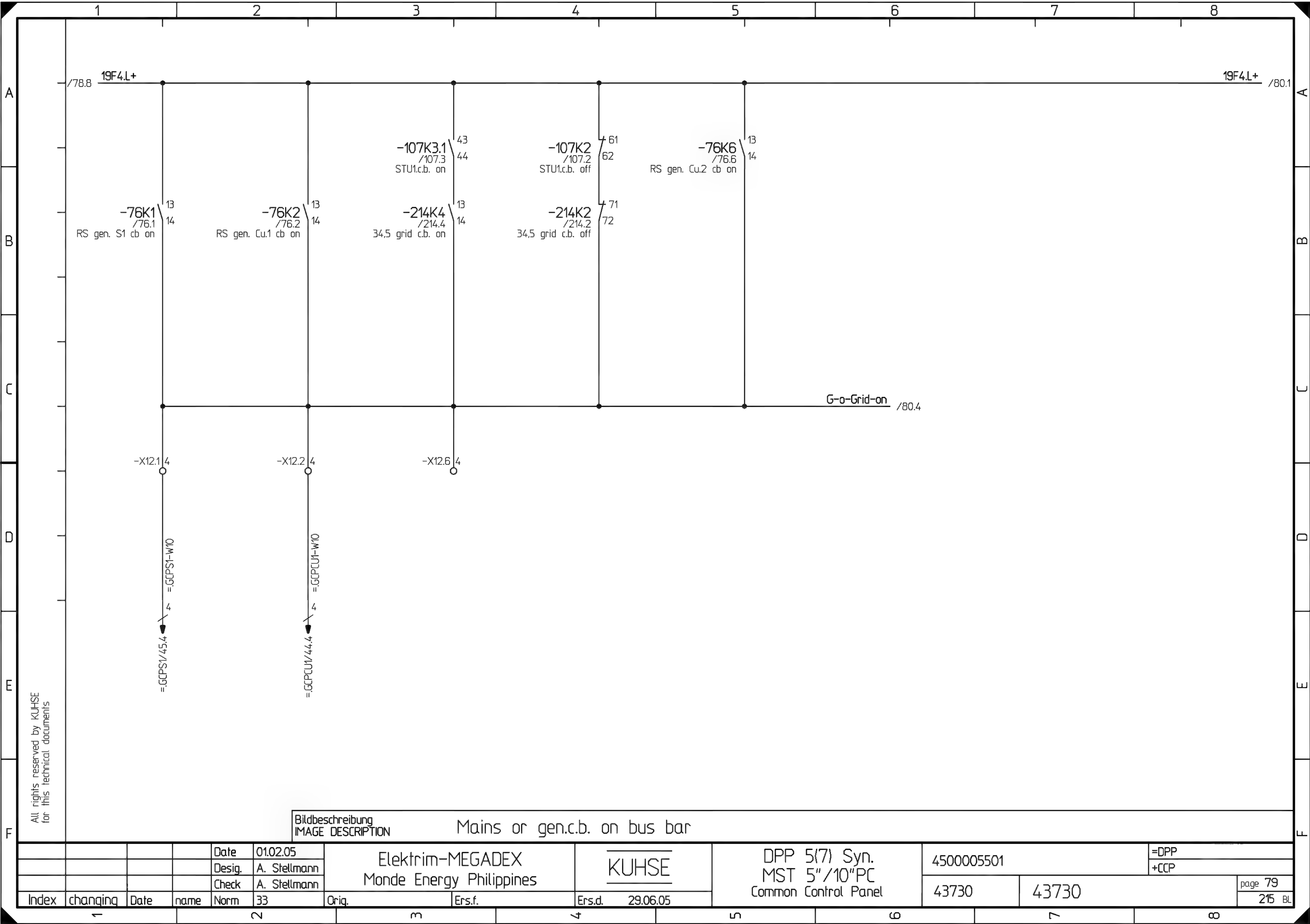
/77.8 19F4.L+

19F4.L+ /79.1

Bildbeschreibung
IMAGE DESCRIPTION

spare

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann				43730	43730
				Check	A. Stellmann					page 78
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			215 BL

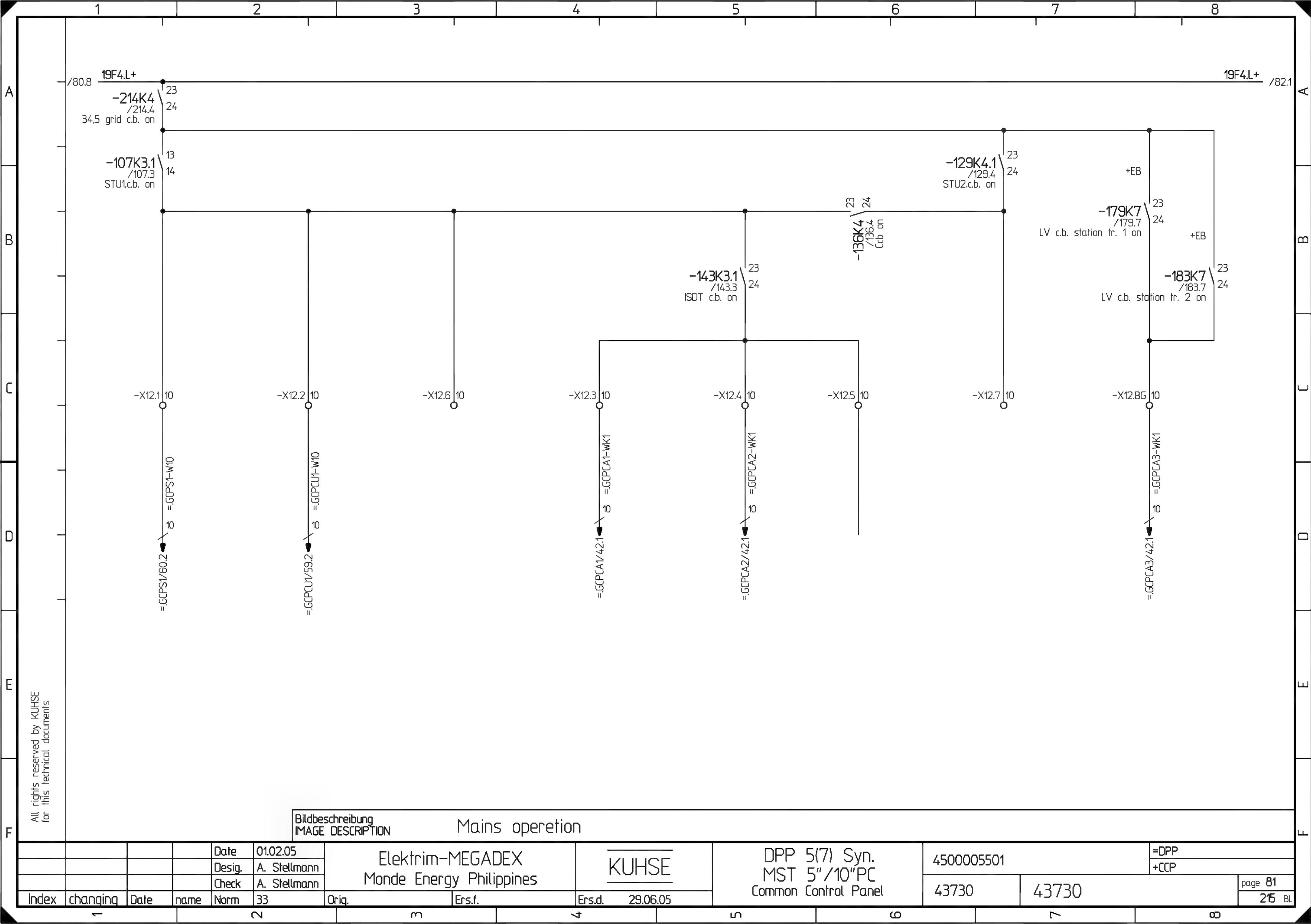


Bildbeschreibung IMAGE DESCRIPTION Mains or gen.c.b. on bus bar

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. Ers.f.	Ers.d. 29.06.05			page 79 215 BL

Bildbeschreibung IMAGE DESCRIPTION: Mains or gen.c.b. on bus bar

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann					
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05		43730 / 43730	page 80 / 215 BL



/80.8 19F4.L+
19F4.L+ /82.1
-214K4 /214.4 34,5 grid c.b. on 23 24
-107K3.1 /107.3 STU1.c.b. on 13 14
-129K4.1 /129.4 STU2.c.b. on 23 24
+EB
-179K7 /179.7 LV c.b. station tr. 1 on 23 24
+EB
-183K7 /183.7 LV c.b. station tr. 2 on 23 24
-136K4 /136.4 Ccb on 23 24
-143K3.1 /143.3 ISDT c.b. on 23 24
-X12.1 10
-X12.2 10
-X12.6 10
-X12.3 10
-X12.4 10
-X12.5 10
-X12.7 10
-X12.BG 10
=.GCPS1-W10 10 =.GCPS1/60.2
=.GCPCU1-W10 10 =.GCPCU1/59.2
=.GCPCA1-WK1 10 =.GCPCA1/42.1
=.GCPCA2-WK1 10 =.GCPCA2/42.1
=.GCPCA3-WK1 10 =.GCPCA3/42.1

Bildbeschreibung IMAGE DESCRIPTION Mains operetion
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig. Ers.f. Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730 43730
=DPP
+CCP
page 81
215 BL

1 2 3 4 5 6 7 8

/81.8 19F4.L+ — 19F4.L+ /83.1
G1-6.ZW-Aus — G1-6.ZW-Aus /92.4

-107K2 23 24 /107.2 STU1.c.b. off
-85K1 11 14 /85.1 Gen. S1,Ca-3,Cu1-2 forced off
-107K2.1 15 16 /107.2 0,5sec.
-XD 5
-107K3.1 23 24 /107.3 STU1.c.b. on
-214K4 33 34 /214.4 34,5 grid c.b. on

STU1-off+Zw /83.1
Gen1-6off /83.1

-84K1 11 12 /84.1 blocking gen. S1 off
-84K2 11 12 /84.2 blocking gen. Cu1 off
-84K3 11 12 /84.3 blocking gen. Ca1 off
-84K4 11 12 /84.4 blocking gen. Ca2 off

-XD 1, -XD 33, -XD 2, -XD 34, -XD 3, -XD 35, -XD 4, -XD 36

-X12.1 6 =.GCPS1-W10 6 =.GCPS1/46.5
-X12.2 6 =.GCPCU1-W10 6 =.GCPCU1/45.5
-X12.3 6 =.GCPCA1-WK1 6 =.GCPCA1/52.7
-X12.4 6 =.GCPCA2-WK1 6 =.GCPCA2/52.7

/76.8 -1XM:4 — -1XM:4 /83.1

Bildbeschreibung IMAGE DESCRIPTION: generator switches 1-5 forced off

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501		=DPP +CCP
				Desig.	A. Stellmann						
				Check	A. Stellmann				43730	43730	page 82
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05				215 BL

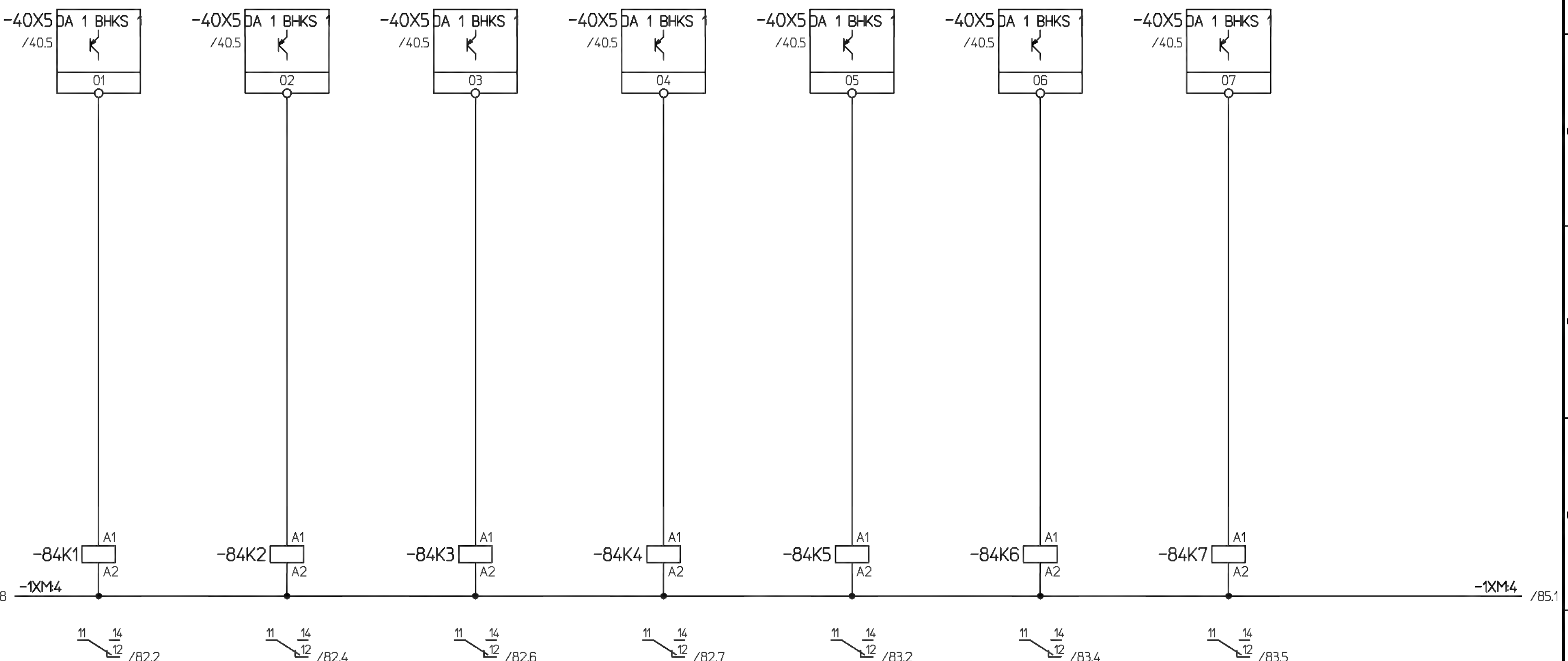
19F4.L+ /82.8
STU1-off+Zw /82.8
Gen1-6off /82.8
-1XM:4 /82.8

-85K3 11 14 /85.3 Gen. S2 forced off
-136K4 33 34 /136.4 Ccb on
-129K2 34 33 /129.2 STU2.c.b. off
-129K3.1 15 16 /129.3 0,5sec
GS2.ZW-Aus GS2.ZW-Aus /114.3
-XD 28
-129K4.1 33 34 /129.4 STU2.c.b. on
-ST1on 11 14 ST1 on order
-ST2on 11 14 ST2 on order
19F4.L+ /92.4

-84K5 11 12 /84.5 blocking gen. Ca3 off
-84K6 11 12 /84.6 blocking gen. Cu2 off
-84K7 11 12 /84.7 blocking gen. S2 off
-XD 6
-XD 37
-XD 7
-XD 38
-XD 8
-X12.5 6
-X12.6 6
-X12.7 6
-X12.BG 6
=.GCPCA3-WK1 6
=.GCPCA3/52.7
-1XM:4 /84.1

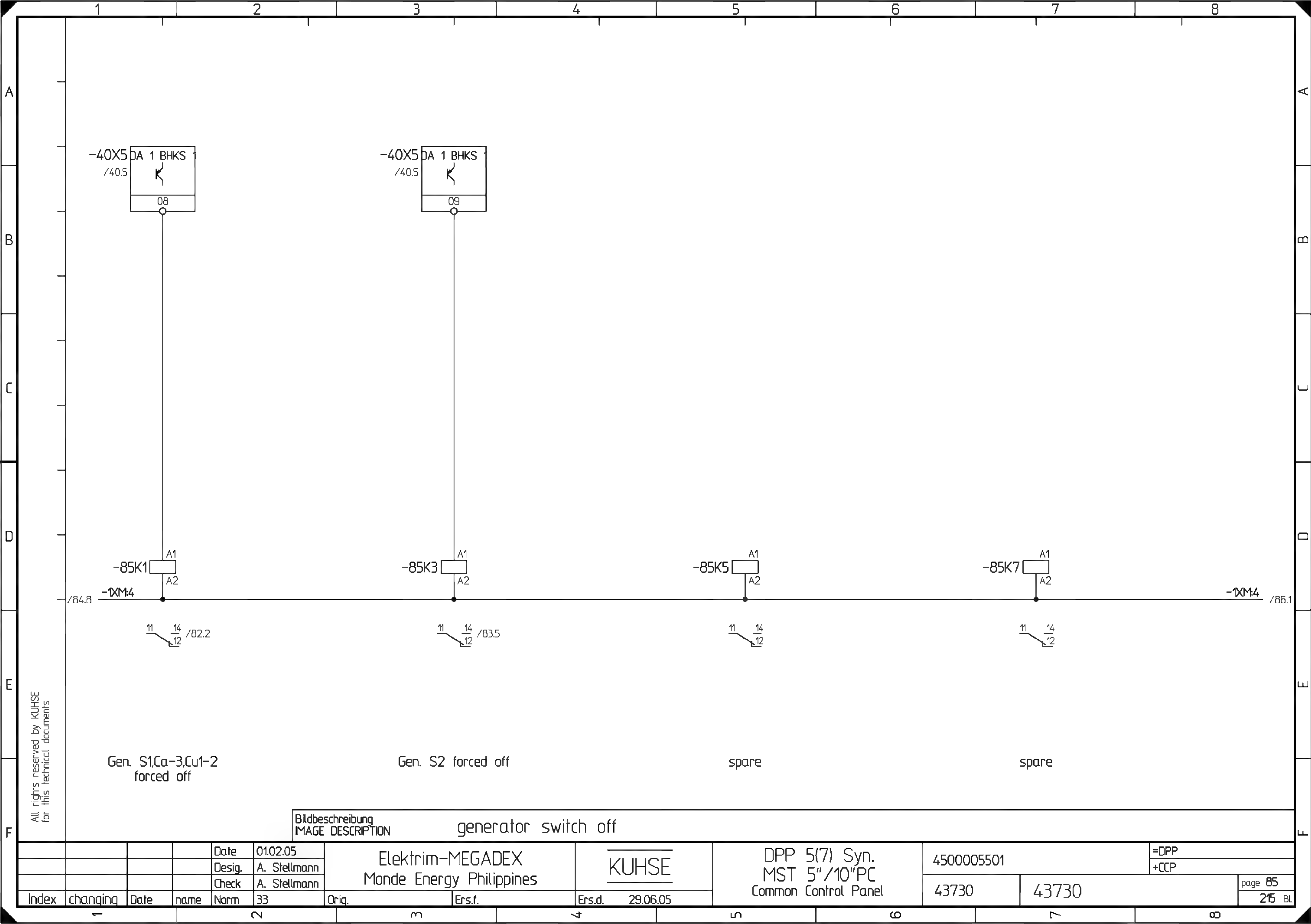
Bildbeschreibung IMAGE DESCRIPTION: generator switches 6-7 forced off

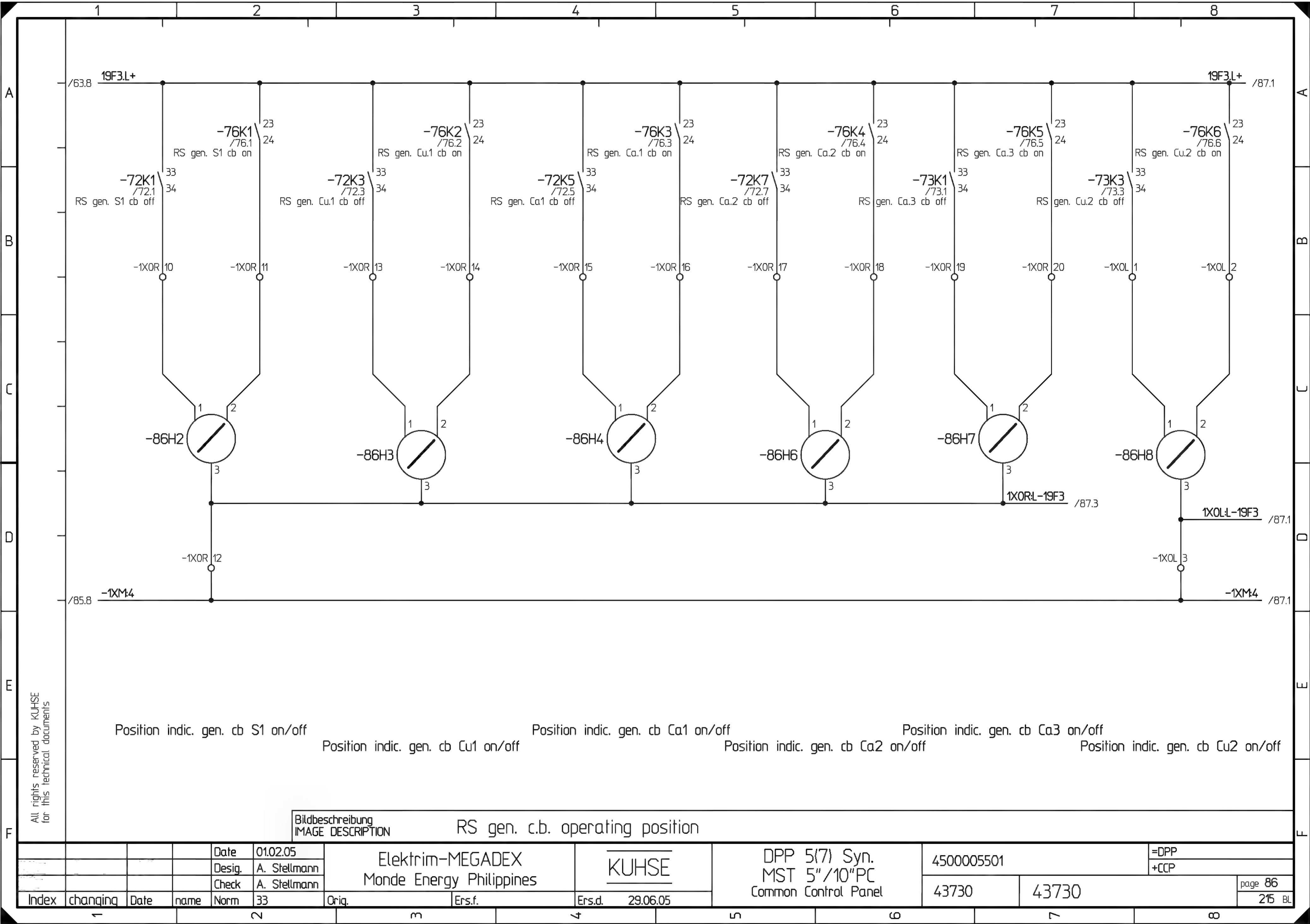
Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 83 / 215 BL



Bildbeschreibung
IMAGE DESCRIPTION
selection generator cutouts

				Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			


-40X5 DA 1 BHKS 1
/40.5
08
-40X5 DA 1 BHKS 1
/40.5
09
-85K1
A1
A2
-85K3
A1
A2
-85K5
A1
A2
-85K7
A1
A2
/84.8
-1XM:4
-1XM:4
/86.1
11 14 12 /82.2
11 14 12 /83.5
11 14 12
11 14 12
Gen. S1,Ca-3,Cu1-2
forced off
Gen. S2 forced off
spare
spare
Bildbeschreibung
IMAGE DESCRIPTION
generator switch off
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 85
215 BL



19F3.L+ /63.8
19F3.L+ /87.1
-72K1 /72.1 RS gen. S1 cb off
-76K1 /76.1 RS gen. S1 cb on
-72K3 /72.3 RS gen. Cu.1 cb off
-76K2 /76.2 RS gen. Cu.1 cb on
-72K5 /72.5 RS gen. Ca1 cb off
-76K3 /76.3 RS gen. Ca.1 cb on
-72K7 /72.7 RS gen. Ca.2 cb off
-76K4 /76.4 RS gen. Ca.2 cb on
-73K1 /73.1 RS gen. Ca.3 cb off
-76K5 /76.5 RS gen. Ca.3 cb on
-73K3 /73.3 RS gen. Cu.2 cb off
-76K6 /76.6 RS gen. Cu.2 cb on
-1X0R 10
-1X0R 11
-1X0R 12
-1X0R 13
-1X0R 14
-1X0R 15
-1X0R 16
-1X0R 17
-1X0R 18
-1X0R 19
-1X0R 20
-1X0L 1
-1X0L 2
-1X0L 3
-86H2
-86H3
-86H4
-86H6
-86H7
-86H8
1X0R:L-19F3 /87.3
1X0L:L-19F3 /87.1
-1XM:4 /85.8
-1XM:4 /87.1
Position indic. gen. cb S1 on/off
Position indic. gen. cb Cu1 on/off
Position indic. gen. cb Ca1 on/off
Position indic. gen. cb Ca2 on/off
Position indic. gen. cb Ca3 on/off
Position indic. gen. cb Cu2 on/off
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Bildbeschreibung IMAGE DESCRIPTION
RS gen. c.b. operating position
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 86
215 BL

19F3.L+ /86.8 — 19F3.L+ /90.1

-73K5 /73.5 (33–34) RS gen. S2 cb off

-76K7 /76.7 (23–24) RS gen. S2 cb on

+EB -73K7 /73.7 (13–14) BG c.b. off

+EB -76K8 /76.8 (13–14) BG c.b. on

-1X0L 14 · -1X0L 15 · -1X0R 46 · 47

-87H2 (1, 2, 3)

+EB -87H3 (1, 2, 3)

/86.7 1X0R:L-19F3 — 1X0R:L-19F3 /95.2

/86.8 1X0L:L-19F3 — 1X0L:L-19F3 /117.2

/86.8 -1XM:4 — -1XM:4 /90.1

Position indic. gen. cb S2 on/off

Position indic. black st. gen. cb on/off

Bildbeschreibung IMAGE DESCRIPTION: RS gen. c.b. operating position

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 87 / 215 BL

Bildbeschreibung
IMAGE DESCRIPTION

spare

Index	changing	Date	name	Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. Ers.f. Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

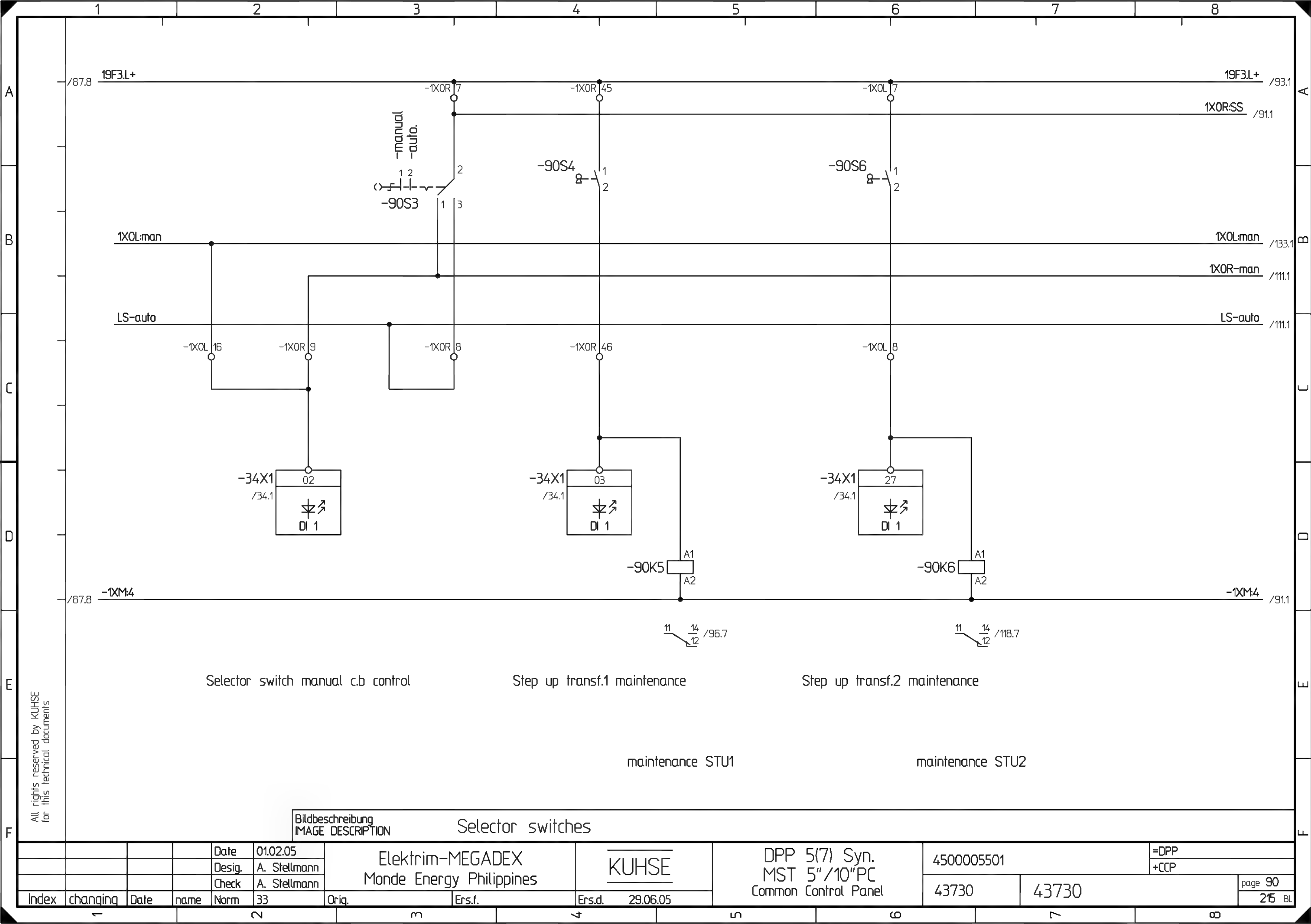
43730 43730

=DPP
+CCP

Bildbeschreibung
IMAGE DESCRIPTION

Spare

				Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			



Bildbeschreibung
IMAGE DESCRIPTION

Selector switches

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 90 / 215 BL

1XOR:SS /90.8

1XOR:SS

-91S1
Release island operation
1 2

-1XOR 59

-34X1 /34.1
25
DI 1

-91K2 A1 A2

-91K3 A1 A2

-1XM:4 /90.8

-1XM:4 /93.1

11 14 12 21 24 22 /215.8

11 14 12 21 24 22

Release island operation

Release island operation Release island operation

Bildbeschreibung
IMAGE DESCRIPTION

Selector switches

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 91 / 215 BL

/25.8 1307-ISU1.L1 — 1307-ISU1.L1 /152.1
/25.8 1307-ISU1.L2 — 1307-ISU1.L2 /152.1
/25.8 1307-ISU1.L3 — 1307-ISU1.L3 /152.1

/28.3 20F6.L+ 20F6.L+ /114.1 -1SX1 1 2 3

/83.8 19F4.L+ — 19F4.L+ /111.1
-1SX1 5 6 7 8 9 -1SX1 10
-X12-GCPC 12
=.GCBC-9W1 1
=.GCBC/9.1

=.GCBC/8.3
9
=.GCBC-10W1
-X12-GCPC 9

-129K2 /129.2 STU2.c.b. off 71 72
-107K2 /107.2 STU1.c.b. off 71 72
-76K8 /76.8 BG c.b. on 23 24
+EB
-136K2 /136.2 c.c.b. off 51 52
+EB
-179K7 /179.7 LV c.b. station tr. 1 on 43 44
+EB
-183K7 /183.7 LV c.b. station tr. 2 on 43 44
-73K5 /73.5 RS gen. S2 cb off 81 82
-74K2 /74.2 G1-6off right bus bar 61 62

-X12-GCPC 10
=.GCBC-10W1
10
=.GCBC/8.3

Release tripp
grid c.b.
by grid failure

=.GCBC/9.1 2 =.GCBC-9W1 -X12-GCPC 13 -1SX1 11
=.GCBC/9.2 3 -X12-GCPC 14 -1SX1 13
=.GCBC/9.3 4 15 14
=.GCBC/9.4 5 -X12-GCPC 16 16

-XD 49 -XD 50 -XD 51

-34X1 /34.1 15 DI 1
-34X1 /34.1 12 DI 1
-34X1 /34.1 13 DI 1
-34X1 /34.1 14 DI 1

/82.8 G1-6.ZW-Aus G1-6.ZW-Aus

Grid failure
Grid under-/over voltage
Grid under-/over frq.
Grid protection unit fault

Bildbeschreibung
IMAGE DESCRIPTION

Grid failure protection

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501		=DPP +CCP
				Desig.	A. Stellmann						
				Check	A. Stellmann				43730	43730	page 92
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05				215 BL

19F3.L+ /90.8
-63K3 /63.3 Reset +CCP 11 14 12
reset /108.2
reset-no
reset-no
-X1.5 1
-W6 sw
-X
STU1/154kV
+34,5kV-ISTU1
34,5kV incoming c.b. STU1
c.b. on
c.b. on -X
c.b. off -X
-W6 bl
-X1.5 2
-W6 br
-X1.5 3
-35X1 /35.1 DI2 12 DI2
-35X1 /35.1 DI2 13 DI2
-93K4 A1 A2
-93K5 A1 A2
-1XM:4 /91.8
-1XM:4 /94.1
19F3.L+ /94.1
11 14 12 /111.4
21 24 22 /95.3
11 14 12 /111.5
21 24 22 /95.2
34,5kV c.b. STU1 on
34,5kV c.b. STU1 off

34,5kV c.b. STU1 on
34,5kV c.b. STU1 off

Bildbeschreibung IMAGE DESCRIPTION: 34,5kV signals c.b. step up transf. 1

Index	changing	Date	name	Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501
43730 | 43730

=DPP
+CCP

/93.8 19F3.L+ 19F3.L+ /95.1

/93.8 -1XM:4 -1XM:4 /96.1

Bildbeschreibung
IMAGE DESCRIPTION spare

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 94 / 215 BL

1 2 3 4 5 6 7 8

A B C D E F

/94.8 19F3.L+

19F3.L+ /98.3

-93K5 21 24
/93.5
34,5kV c.b. STU1 off

-93K4 21 24
/93.4
34,5kV c.b. STU1 on

-1X0R 21

-1X0R 22

1 2

-95H2

3

/87.4 1X0R:L-19F3

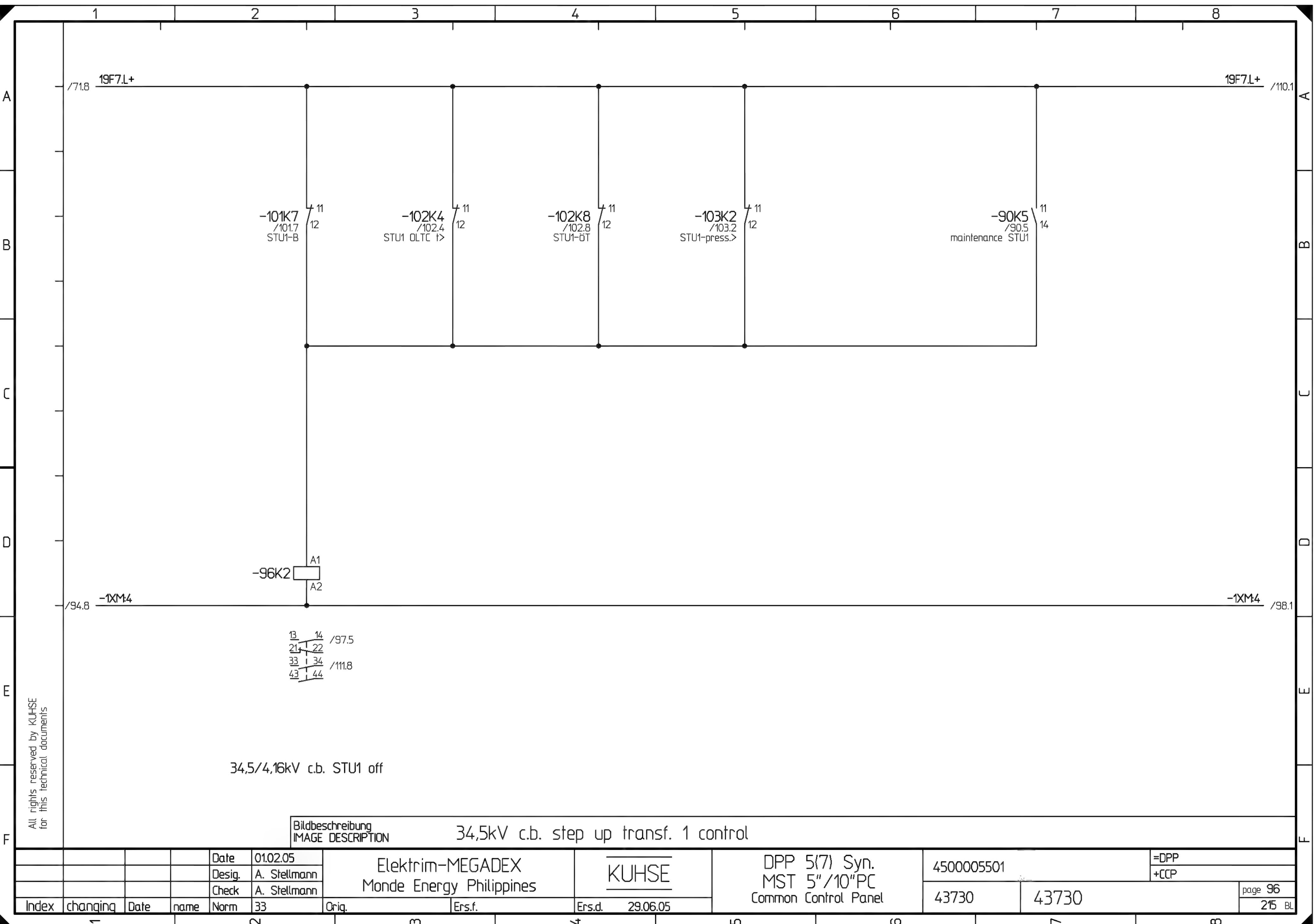
1X0R:L-19F3 /109.2

34,5kV c.b. step up transf. 1

Bildbeschreibung
IMAGE DESCRIPTION

34,5kV c.b. step up transf. 1 indication

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines		KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501		=DPP +CCP	
				Desig.	A. Stellmann								
				Check	A. Stellmann					43730	43730		page 95
Index	changing	Date	name	Norm	33	Orig.	Ersf.	Ers.d. 29.06.05					215 BL


19F7.L+ /71.8
19F7.L+ /110.1
-101K7 /101.7 STU1-B 11 12
-102K4 /102.4 STU1 OLTC t> 11 12
-102K8 /102.8 STU1-ÖT 11 12
-103K2 /103.2 STU1-press.> 11 12
-90K5 /90.5 maintenance STU1 11 14
-96K2 A1 A2
-1XM:4 /94.8
-1XM:4 /98.1
13 14 /97.5
21 22
33 34 /111.8
43 44
34,5/4,16kV c.b. STU1 off
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Bildbeschreibung IMAGE DESCRIPTION
34,5kV c.b. step up transf. 1 control
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 96
215 BL

-96K2 13 14
/96.2
34,5/4,16kV c.b. STU1 off

-X1.5 5
-X1.5 6
-W22 1 2
-X
-X

+34,5kV-ISTU1
34,5kV incoming c.b. STU1

34,5kV c.b. STU1 off

Bildbeschreibung
IMAGE DESCRIPTION
34,5kV c.b. step up transf. 1 control

			Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
			Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
			Check	A. Stellmann			Common Control Panel	43730	43730 page 97
Index	changing	Date	name	Norm 33	Orig. / Ers.f.	Ers.d. 29.06.05			215 BL

-41X5 DA2 BHKS 1 /41.5 03
-41X5 DA2 BHKS 1 /41.5 04
-98K1 A1 A2
-98K2 A1 A2
/96.8 -1XM:4
-1XM:4
11 14 12 .5
11 14 12 .7

/95.8 19F3.L+
19F3.L+ /101.1
-manual -auto. 1 2
-1X0R 47 2
-98S6.1 1 3
-1X0R 49
-1X0R 48
-34X1 /34.1 24 DI 1
-98K1 .1 11 14 STU1 tap changer increase
-98S6.2 STU1 tap changer increase 3 4
-1X0R 54
-98K2 .2 11 14 STU1 tap changer decrease
-98S8 STU1 tap changer decrease 3 4
-1X0R 55
-XD 23
-XD 24
-XD 25
-XD 26
-98K7 .7 11 12 STU1 tap changer decrease
-98K5 .5 11 12 STU1 tap changer increase
-98K5 A1 A2
-98K7 A1 A2
-1XM:4
-1XM:4 /100.1
11 14 12 21 24 22 .7 /99.3
11 14 12 21 24 22 .5 /99.5

STU1 tap changer increase
STU1 tap changer decrease
SS tap changer STU1 manual
STU1 tap changer increase
STU1 tap changer decrease

Bildbeschreibung IMAGE DESCRIPTION: Control tap changer step up transf. 1

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines
Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501
43730 | 43730

=DPP
+CCP

-98K5 21 24 /98.5
STU1 tap changer increase

-98K7 21 24 /98.7
STU1 tap changer decrease

-X3.1 23 | -X3.1 24 | -X3.1 25

-W7 bl | br | sw

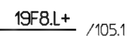
-X3 4 | -X3 6 | -X3 5

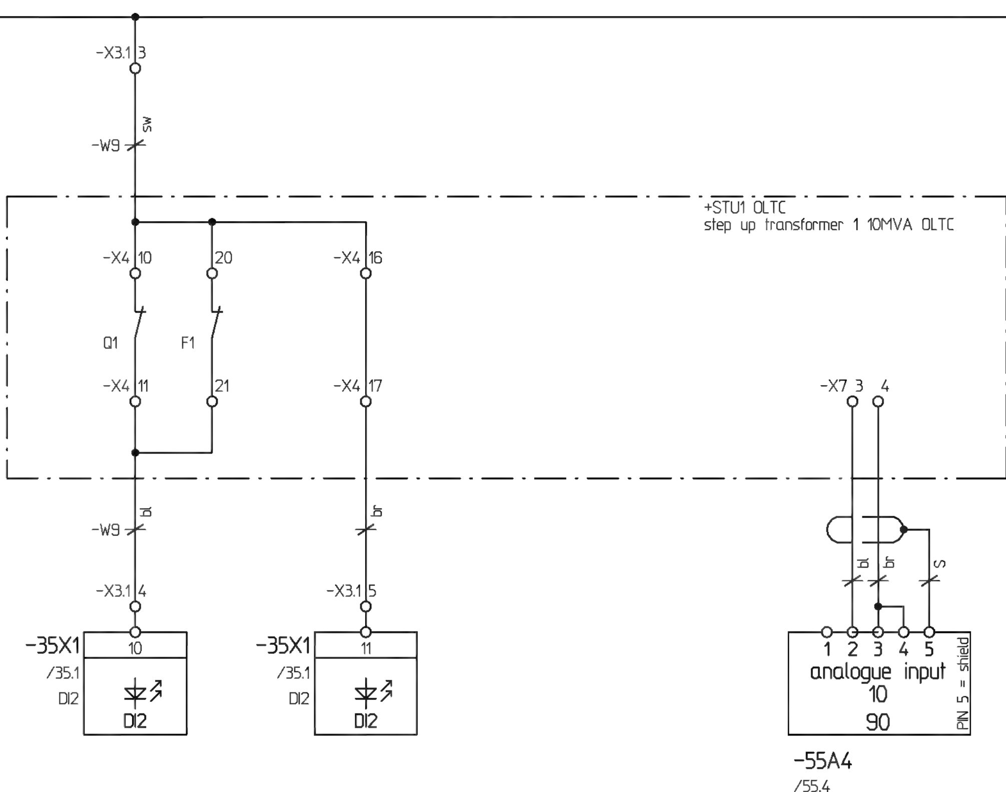
+STU1 OLTC
step up transformer 1 10MVA OLTC

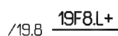
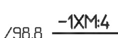
Bildbeschreibung
IMAGE DESCRIPTION

Control tap changer step up transf. 1

				Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501		=DPP	
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC			+CCP	
				Check	A. Stellmann			Common Control Panel	43730	43730		page 99
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05					215 BL





Motor drive unit step up transf. 1 in remote

step up transformer 1 OLTC position
4-20mA=1-19 (-1-8-9A 9 9B -10-17)

Motor drive unit step up transf. 1 fault

Bildbeschreibung
IMAGE DESCRIPTION

Control tap changer step up transf. 1

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

19F3.L+ /98.8
19F3.L+ /102.1
-X3.1 6
-W10 1
+STU1
step up transformer 1 10MVA
19F3-STU1 /102.2
-X1 1
97T
-X1 2
-W10 2
-X3.1 7
-35X1 18 /35.1 DI2
DI2
-X1 26
-X1 27
3
-X3.1 8
-35X1 19 /35.1 DI2
DI2
-101K7 A1 A2
-1XM:4 /100.8
-1XM:4 /102.1
11 14 12 /96.2

STU1 buchholz alarm

STU1-B
STU1 buchholz trip

Bildbeschreibung
IMAGE DESCRIPTION
Step up transformer 1 protection

Index	changing	Date	name	Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines
Orig. Ers.f. Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501
43730 43730
=DPP
+CCP

19F3.L+ /101.8 — 19F3.L+ /103.1

19F3-STU1 /101.8 — 19F3-STU1 /103.2

+STU1
step up transformer 1 10MVA

-102S3 T>> -X1 36 / -X1 37 — -W10 4 — -X3.1 9 — -35X1 21 /35.1 DI2 DI2

26T1 T> -X1 11 / -X1 10 — 5 — -X3.1 10 — -35X1 22 /35.1 DI2 DI2

26T1 T>> -X1 29 / -X1 30 — 6 — -X3.1 11 — -35X1 23 /35.1 DI2 DI2

-102K4 A1 A2 — 11 14 12 /96.3

-102K8 A1 A2 — 11 14 12 /96.4

-1XM:4 /101.8 — -1XM:4 /103.1

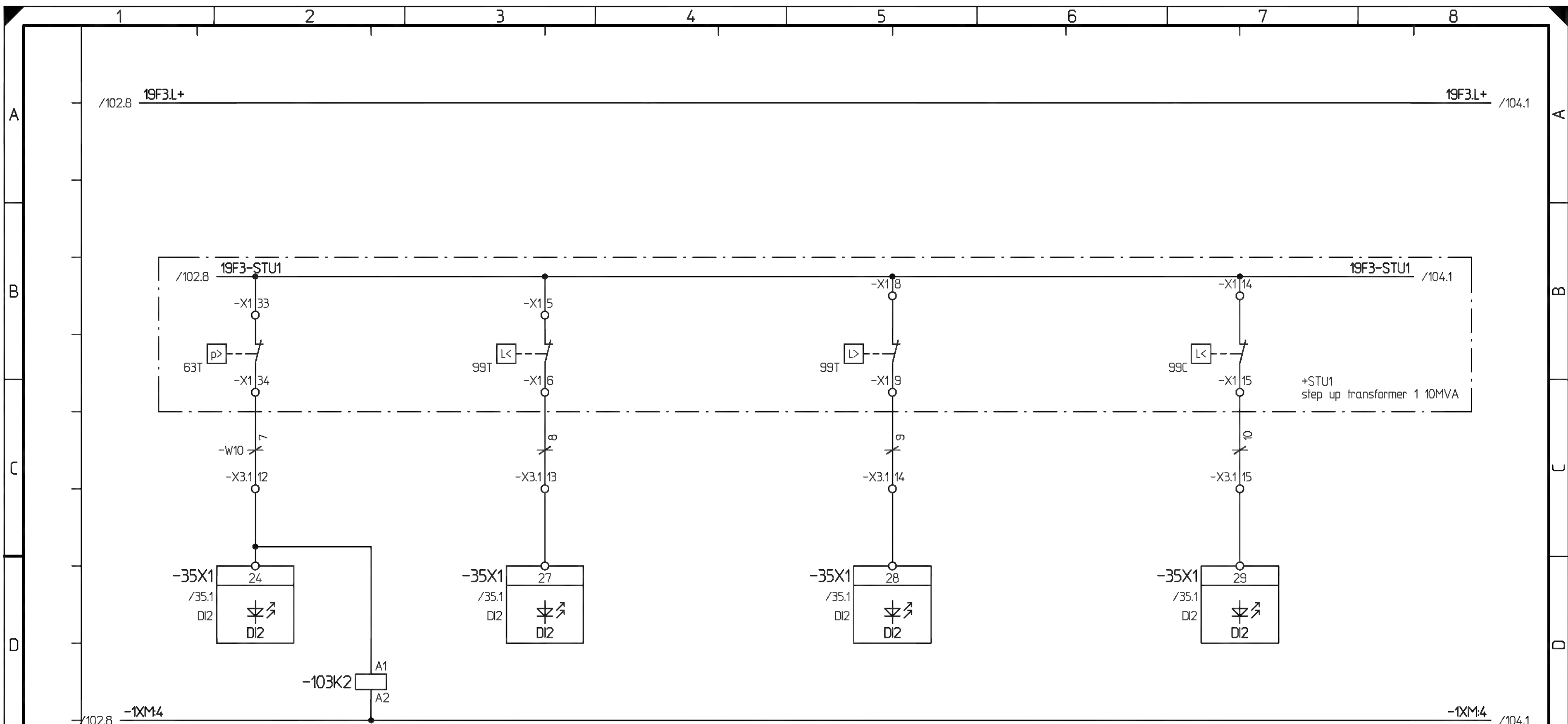
STU1 oil temp. alarm

STU1 OLTC over temp. trip n.c. STU1 OLTC t>

STU1 oil temp. trip STU1-öT

Bildbeschreibung
IMAGE DESCRIPTION Step up transformer 1 protection

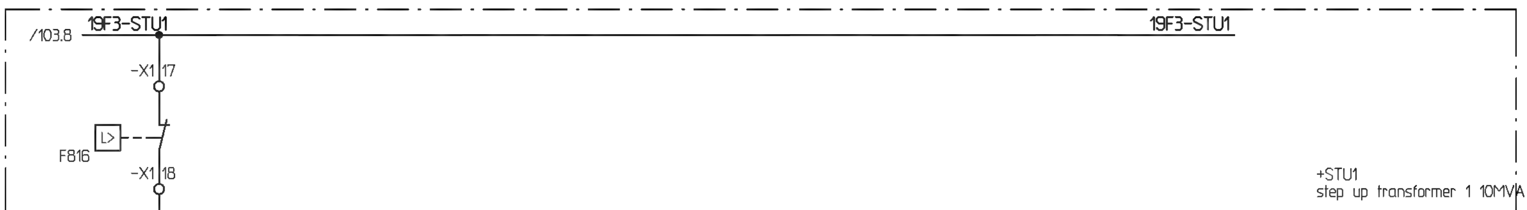
Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 102 / 215 BL

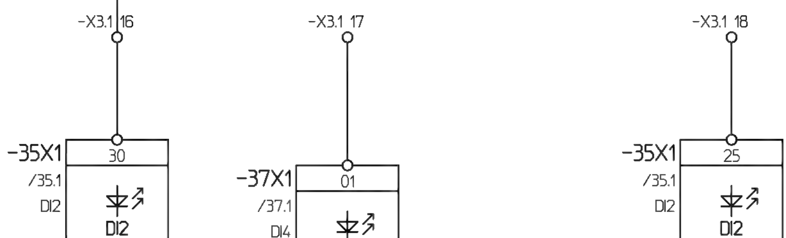


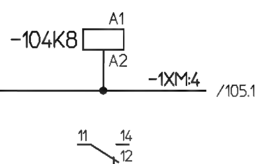
Bildbeschreibung
IMAGE DESCRIPTION

Step up transformer 1 protection

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05		page 103 / 215 BL







/103.8 -1XM:4

STU1 tap changer oil level max n.c.

spare

spare

spare

Bildbeschreibung
IMAGE DESCRIPTION

Step up transformer 1 protection

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann				43730	43730
				Check	A. Stellmann					page 104
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			215 BL

/100.8 19F8.L+ — 19F8.L+ /122.1

-X1.1 26

-W11 bl

-X1 516

5000I/kWh

-X1 539

+OSTU1
Outgoing step up transformer 1

-W11 br

S

-X1.1 27

PE.

-36X2
/36.2
DEI3

29

DEI3

/104.8 -1XM:4 — -1XM:4 /107.1

kWh counter STU1 1251/1664kWh

Bildbeschreibung
IMAGE DESCRIPTION
kWh counter input STU1

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines		KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501		=DPP +CCP
				Desig.	A. Stellmann							
				Check	A. Stellmann					43730	43730	page 105
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05				215 BL

Bildbeschreibung
IMAGE DESCRIPTION

spare

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines		KUHSE		DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501		=DPP +CCP	
				Desig.	A. Stellmann									
				Check	A. Stellmann						43730	43730		page 106
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d.	29.06.05					215 BL

Bildbeschreibung
IMAGE DESCRIPTION

Control 4,16kV c. b. step up transf.1

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Orig. | Ers.f. | Ers.d. 29.06.05

Elektrim-MEGADEX
Monde Energy Philippines

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501
43730
43730

=DPP
+CCP

/107.8 19F3.L+ — 19F3.L+ /109.1

+OSTU1
Outgoing step up transformer 1

/107.7 19F3.L+/STU1

-X1 511 / -X1 533
-X1 512 / -X1 534
-X1 438 / -X1 537

/93.4 reset — reset /115.1

-W12 8 / -X1.1 12
9 / -X1.1 13
10 / -X1.1 14

-108K5 .5 21 24
4,16kV OSTU1 trip I>>
-XD 39

-108K7 .7 21 24
4,16kV STU1 earth fault
-XD 15

-34X1 /34.1 21 DI 1
-34X1 /34.1 22 DI 1
-34X1 /34.1 23 DI 1

-108K5 A1 A2
-108K7 A1 A2

/107.8 -1XM:4 — -1XM:4 /109.1

11 14 /111.2 12 21 24 22 .5
11 14 /111.3 12 21 24 22 .7

4,16kV c.b STU1 protection fault n.o.

4,16kV c.b STU1 protection trip. n.o.

4,16kV STU1 earth fault n.o.

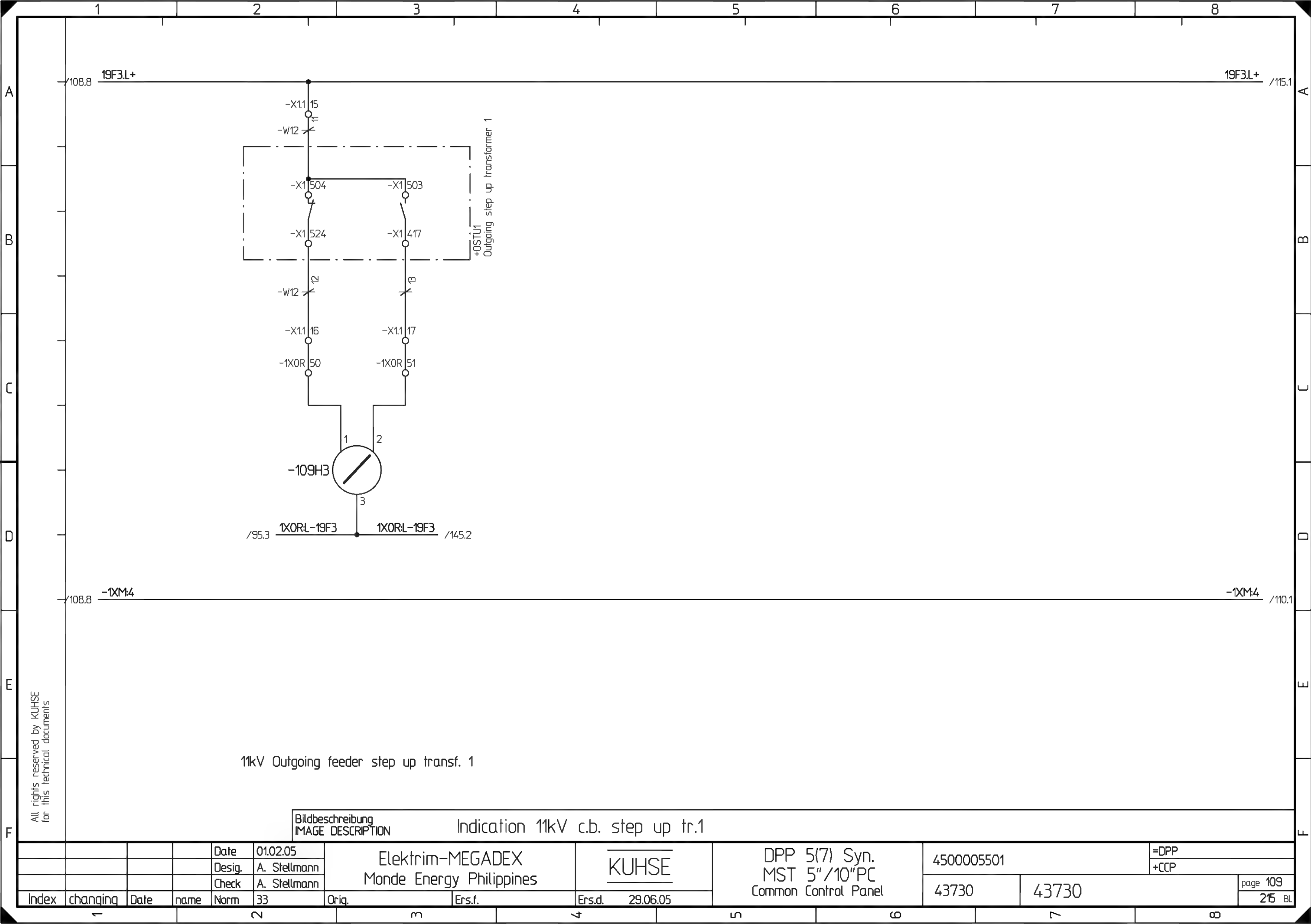
4,16kV OSTU1 trip I>>

4,16kV STU1 earth fault

Bildbeschreibung
IMAGE DESCRIPTION
Control 4,16kV c. b. step up transf.1

Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
Desig.	A. Stellmann					
Check	A. Stellmann				43730	43730
Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 108 / 215 BL

Index | changing | Date | name



/108.8 19F3.L+
19F3.L+ /115.1
-X1.1 15
-W12 11
-X1 504
-X1 503
-X1 524
-X1 417
+OSTU1
Outgoing step up transformer 1
-W12 12
13
-X1.1 16
-X1.1 17
-1X0R 50
-1X0R 51
1
2
-109H3
3
/95.3 1X0R:L-19F3
1X0R:L-19F3 /145.2
/108.8 -1XM:4
-1XM:4 /110.1
11kV Outgoing feeder step up transf. 1
Bildbeschreibung
IMAGE DESCRIPTION
Indication 11kV c.b. step up tr.1
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Elektrim-MEGADEX
Monde Energy Philippines
Orig.
Ers.f.
KUHSE
Ers.d. 29.06.05
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
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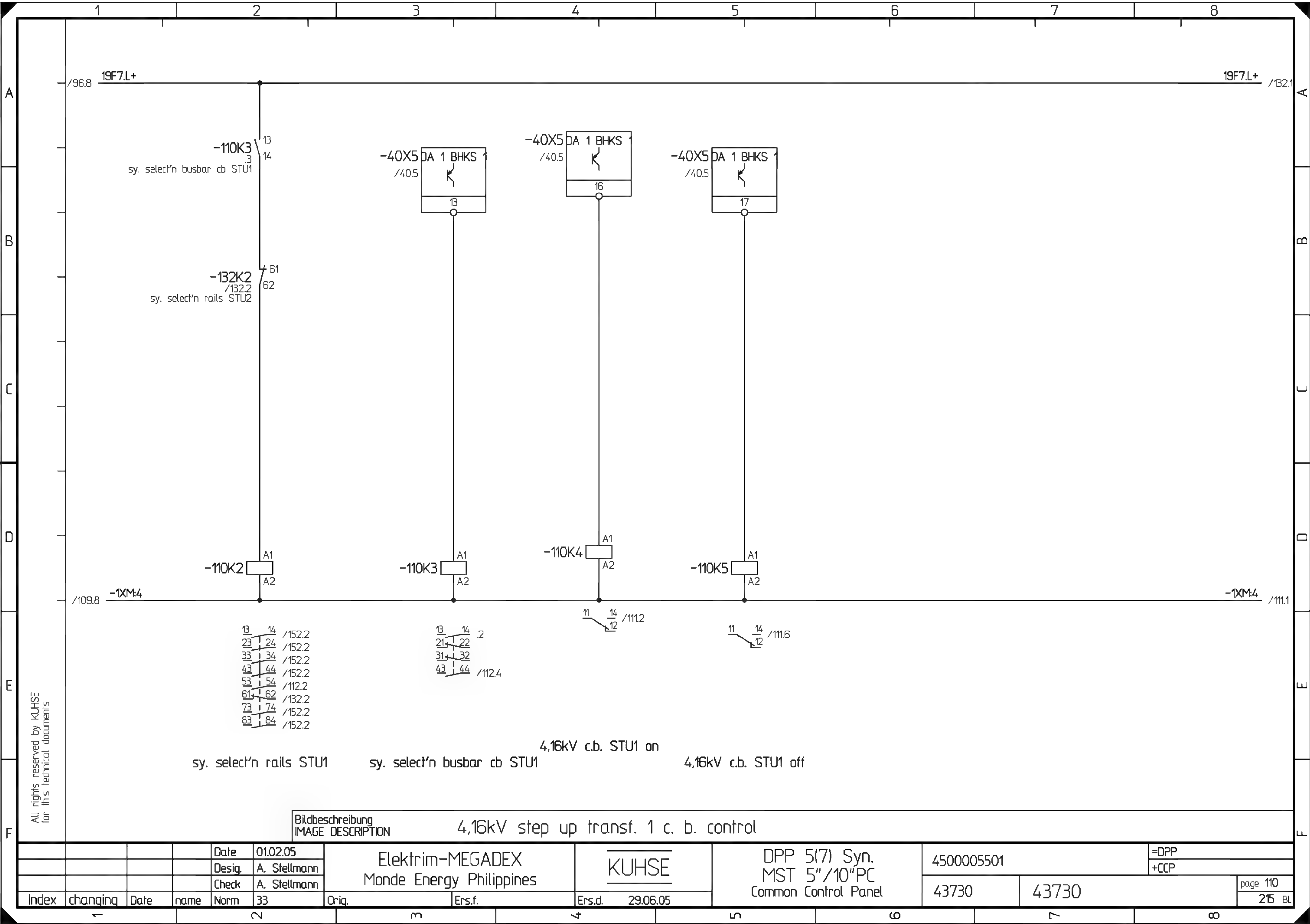
215 BL


19F7.L+
/96.8
/132.1
-110K3
.3
13
14
sy. select'n busbar cb STU1
-132K2
/132.2
61
62
sy. select'n rails STU2
-40X5 DA 1 BHKS 1
/40.5
13
16
17
-110K2
-110K3
-110K4
-110K5
A1
A2
-1XM:4
/109.8
/111.1
/152.2
/112.2
/132.2
.2
/112.4
/111.2
/111.6
sy. select'n rails STU1
sy. select'n busbar cb STU1
4,16kV c.b. STU1 on
4,16kV c.b. STU1 off
Bildbeschreibung
IMAGE DESCRIPTION
4,16kV step up transf. 1 c. b. control
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
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43730
=DPP
+CCP
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215 BL
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/92.8 19F4.L+ — 19F4.L+ /114.4

-108K5 /108.5 4,16kV OSTU1 trip I>> 11 14

-108K7 /108.7 4,16kV STU1 earth fault 11 14

-61K3 /61.3 emergency stop 1 61 62

-93K5 /93.5 34,5kV c.b. STU1 off 11 14

-70K1 /70.1 Gen. S1 Cu1,2 off fault 13 14

-70K8 /70.7 Gen. S2 2 off fault 23 24

-136K4 /136.4 Ccb on 53 54

-96K2 /96.2 34,5/4,16kV c.b. STU1 off 33 34

/90.8 1X0R-man — 1X0R-man /147.1

-111S4 E- e c 13,8kV c. b. STU1 -1X0R 33

-111S4 E- f h 13,8kV c. b. STU1 -1X0R 34

/90.8 LS-auto — LS-auto /133.1

-XD 9, -XD 10, -XD 11, -XD 12, -XD 13

-107K3.2 /107.3 11kV STU1 earthing sw. off 11 14

-74K2 /74.2 G1-6off right bus bar 43 44

-214K2 /214.2 34,5 grid c.b. off 23 24

-110K4 /110.4 4,16kV c.b. STU1 on 11 14

-111K5 .5 4,16kV c. b. STU1 off 21 22

-93K4 /93.4 34,5kV c.b. STU1 on 11 14

-110K5 /110.5 4,16kV c.b. STU1 off 11 14

-136K2 /136.2 c.c.b. off 13 14

-73K5 /73.5 RS gen. S2 cb off 13 14

-111K4 A1 A2

-111K5 A1 A2

/110.8 -1XM:4 — -1XM:4 /114.1

-111K4: 13 14 /112.2; 21 22; 33 34 /112.3; 43 44

-111K5: 13 14 /112.5; 21 22 .3; 31 32; 43 44

4,16kV c. b. STU1 on 4,16kV c. b. STU1 off

Bildbeschreibung IMAGE DESCRIPTION: 4,16kV step up transf. 1 c. b. control

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX Monde Energy Philippines

Orig. | Ersf. | Ersd. 29.06.05

KUHSE

DPP 5(7) Syn. MST 5"/10"PC Common Control Panel

4500005501

43730 | 43730

=DPP +CCP

+OSTU1
Outgoing step up transformer 1

-X1 322
-X1 328
-X1 304
-W25 1
3
5
-X1.1 28
-X1.1 30
-X1.1 32

-110K2 /110.2 sy. select'n rails STU1 53 54
-110K3 /110.3 sy. select'n busbar cb STU1 43 44
-111K4 /111.4 4,16kV c. b. STU1 on 13 14
-111K4 /111.4 4,16kV c. b. STU1 on 33 34
-111K5 /111.5 4,16kV c. b. STU1 off 13 14
-153K7 /153.7 7 4
-153K7 /153.7 8 5

-X1.1 29
-X1.1 31
-X1.1 33
-W25 2
4
6
-X1 334
-X1 329
-X1 323

+OSTU1
Outgoing step up transformer 1

13,8kV OSTU1 c. b. on

13,8kV OSTU1 c. b. off

Bildbeschreibung
IMAGE DESCRIPTION

4,16kV step up transf. 1 c. b. control

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. Ers.f. Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 43730

=DPP
+CCP

Bildbeschreibung
IMAGE DESCRIPTION spare

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 113 / 215 BL

/26.8 1407-ISU2.L1 — 1407-ISU2.L1 /152.3
/26.8 1407-ISU2.L2 — 1407-ISU2.L2 /152.3
/26.8 1407-ISU2.L3 — 1407-ISU2.L3 /152.3
/92.2 20F6.L+ 20F6.L+

-1SX2 1, 2, 3

/111.8 19F4.L+ — 19F4.L+ /118.1

-1SX2 5, 6, 7, 8, 9, -1SX2 10

-1SX2 11, 12, 13, 14, 15, 16

-XD 52, -XD 53, -XD 54

-36X2 04 /36.2 DEI3
-36X2 01 /36.2 DEI3
-36X2 02 /36.2 DEI3
-36X2 03 /36.2 DEI3

/56.8 PE — PE /153.1
/111.8 -1XM:4 — -1XM:4 /115.1

/83.7 GS2.ZW-Aus — GS2.ZW-Aus /133.7

Not necessary by extension

Grid failure STU 2

Grid under-/over voltage STU 2

Grid under-/over frq. STU 2

Protection unit STU2 fault

Bildbeschreibung IMAGE DESCRIPTION: Grid failure prot. STU2 extension

Index	changing	Date	name	Norm	33
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

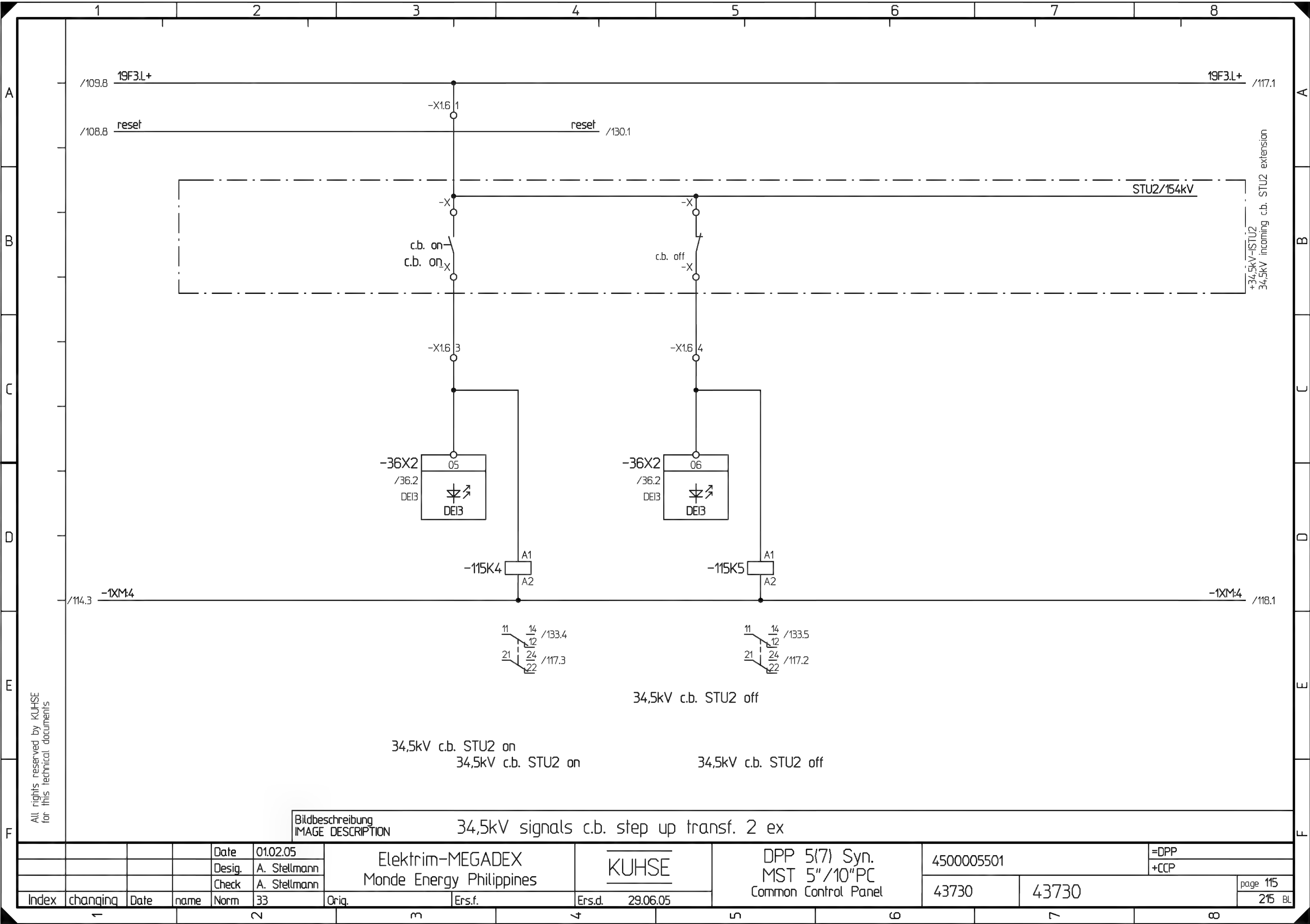
KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP


19F3.L+
/109.8
/117.1
-X1.6 1
reset
/108.8
/130.1
STU2/154kV
+34,5kV-ISTU2
34,5kV incoming c.b. STU2 extension
-X
c.b. on
c.b. on
c.b. off
-X1.6 3
-X1.6 4
-36X2
/36.2
DEI3
05
06
-115K4
-115K5
A1
A2
-1XM:4
/114.3
/118.1
/133.4
/117.3
/133.5
/117.2
34,5kV c.b. STU2 off
34,5kV c.b. STU2 on
34,5kV c.b. STU2 on
34,5kV c.b. STU2 off
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Bildbeschreibung
IMAGE DESCRIPTION
34,5kV signals c.b. step up transf. 2 ex
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
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43730
43730
=DPP
+CCP
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Bildbeschreibung
IMAGE DESCRIPTION

spare

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

=DPP
+CCP

43730 | 43730

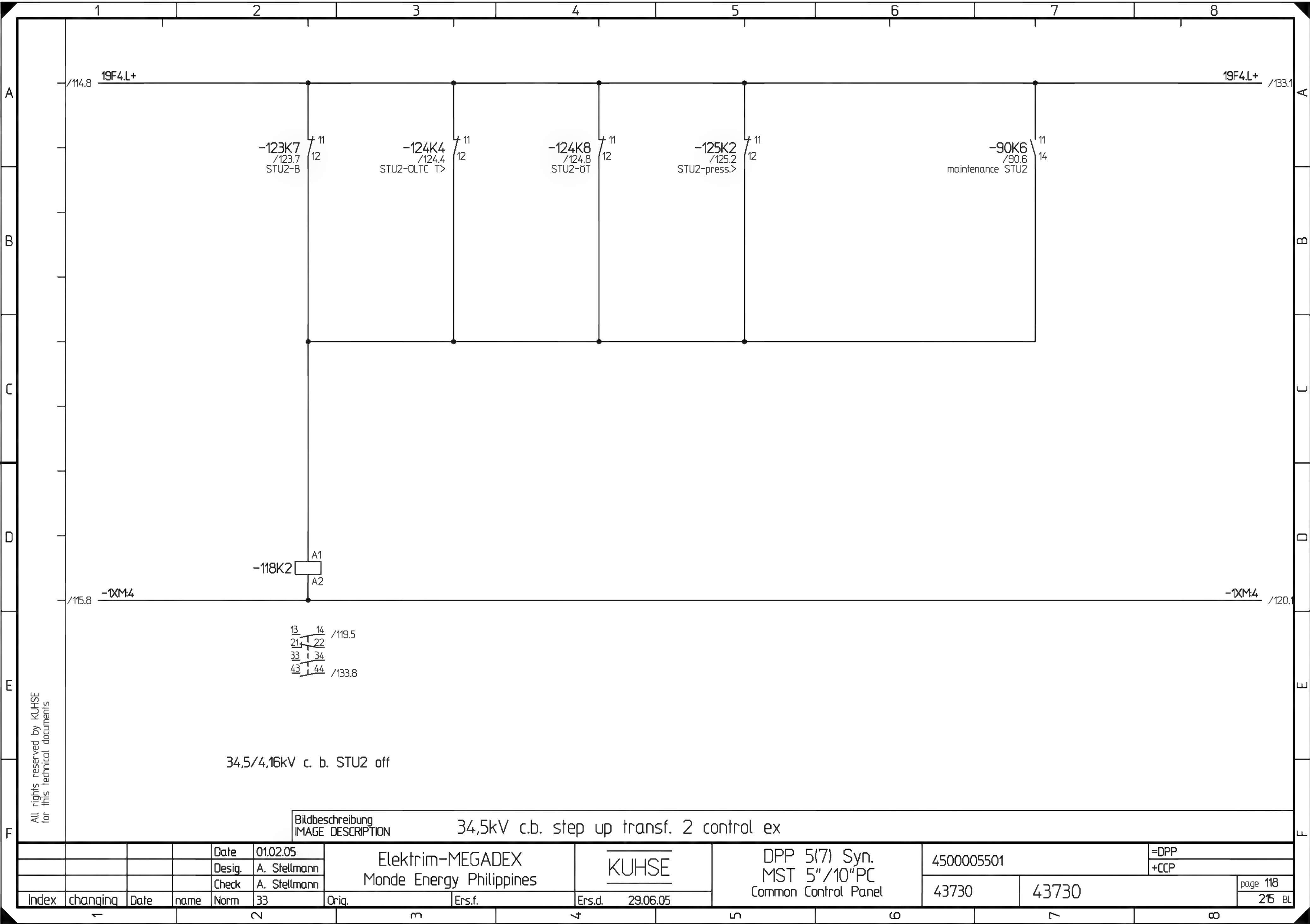
154kV c.b. step up transf. 2

Bildbeschreibung
IMAGE DESCRIPTION

34,5kV c.b. step up transf. 2 indication

Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
Desig.	A. Stellmann					
Check	A. Stellmann				43730	43730
Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 117 / 215 BL

Index	changing	Date	name


19F4.L+
/114.8
/133.1
-123K7
/123.7
STU2-B
-124K4
/124.4
STU2-OLTC T>
-124K8
/124.8
STU2-öT
-125K2
/125.2
STU2-press.>
-90K6
/90.6
maintenance STU2
11
12
14
-118K2
A1
A2
-1XM:4
/115.8
/120.1
13 14 /119.5
21 22
33 34
43 44 /133.8
34,5/4,16kV c. b. STU2 off
Bildbeschreibung
IMAGE DESCRIPTION
34,5kV c.b. step up transf. 2 control ex
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Index changing Date name Norm 33
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 118
215 BL

-118K2 13 14
/118.2
34,5/4,16kV c. b. STU2 off

-X1.6 7

-X1.6 8

-X

-X

+34,5kV-ISTU2
34,5kV incoming c.b. STU2 extension

34,5kV c.b. STU2 off

Bildbeschreibung
IMAGE DESCRIPTION

34,5kV c.b. step up transf. 2 control ex

			Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501		=DPP +CCP
			Desig.	A. Stellmann						
			Check	A. Stellmann				43730	43730	page 119
Index	changing	Date	name	Norm 33	Orig. / Ers.f.	Ers.d. 29.06.05				215 BL

Control tap changer step up transf. 2 ex

19F3.L+ /117.8 — 19F3.L+ /123.1

-41X5 DA2 BHKS 1 /41.5 05

-41X5 DA2 BHKS 1 /41.5 06

-120S6.1 -manual -auto. 1 2 -1X0L 27

-1X0L 28

-1X0L 29

-36X2 /36.2 DEI3 07 DEI3

-120K1 .1 11 14 STU2 tap changer increase

-120S6.2 STU2 tap changer increase STU2 tap changer increase 3 4 -1X0L 30

-120K2 .2 11 14 STU2 tap changer decrease

-120S8 STU2 tap changer decrease STU2 tap changer decrease 3 4 -1X0L 31

-XD 40 -XD 41 -XD 42 -XD 43

-120K7 .7 11 12 STU2 tap changer decrease

-120K5 .5 11 12 STU2 tap changer increase

-120K1 A1 A2

-120K2 A1 A2

-120K5 A1 A2

-120K7 A1 A2

/118.8 -1XM:4 — -1XM:4

-1XM:4 — -1XM:4 /122.1

11 14 12 .5

11 14 12 .7

11 14 12 .7 21 24 22 /121.3

11 14 12 .5 21 24 22 /121.5

STU2 tap changer increase

STU2 tap changer decrease

SS tap changer STU2 manual

STU2 tap changer increase

STU2 tap changer decrease

Bildbeschreibung IMAGE DESCRIPTION: Control tap changer step up transf. 2 ex

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

-120K5 /120.5 21 24
STU2 tap changer increase

-120K7 /120.7 21 24
STU2 tap changer decrease

-X3.2 19
-X3.2 20
-X3.2 21

-X3 4
-X3 6
-X3 5

+STU2 OLTC
Step up transformer 2 motor drive unit

Bildbeschreibung
IMAGE DESCRIPTION

Control tap changer step up transf. 2 ex

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

19F8.L+ /105.8 — 19F8.L+ /127.1

-X3.2 3

+STU2 OLTC
Step up transformer 2 motor drive unit

-X4 10, 20, -X4 16
Q1 F1
-X4 11, 21, -X4 17

-X7 3 4

-X3.2 4 — -36X2 08 /36.2 DEI3 DEI3

-X3.2 5 — -36X2 09 /36.2 DEI3 DEI3

1 2 3 4 5
analogue input
11
90
PIN 5 = shield
-55A4
/55.4

-1XM:4 /120.8 — -1XM:4 /123.1

Motor drive unit step up transf. 2 in remote

step up transformer 2 OLTC position
4-20mA=1-19 (-1-8-9A 9 9B -10-17)

Motor drive unit step up transf. 2 fault

Bildbeschreibung
IMAGE DESCRIPTION
Control tap changer step up transf. 2 ex

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann				43730	43730
				Check	A. Stellmann	Orig.	Ers.f.	Ers.d. 29.06.05		
				Norm	33					

/120.8 19F3.L+

19F3.L+ /124.1

-X3.2 6

19F3-STU2 /124.2

-X1 1

-X1 26

97T

-X1 2

-X1 27

+STU2
Step-Up Transformator 2 extension

-X3.2 7

-X3.2 8

-36X2 11
/36.2
DEI3
DEI3

-36X2 12
/36.2
DEI3
DEI3

A1
-123K7
A2

/122.8 -1XM:4

-1XM:4 /124.1

11 14 12 /118.2

STU2 buchholz trip

STU2 buchholz alarm

STU2-B

Bildbeschreibung
IMAGE DESCRIPTION

Step up transformer 2 protection

			Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
			Desig.	A. Stellmann					
			Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05	page 123 / 215 BL

19F3.L+ /123.8 — 19F3.L+ /125.1

19F3-STU2 /123.8 — 19F3-STU2 /125.2

+STU2
Step-Up Transformator 2 extension

-X1 36 / -X1 37 (T>>) — -X3.2 9 — -36X2 13 /36.2 DEI3 — -124K4 A1 A2

-X1 11 / -X1 10 (T> 26T1) — -X3.2 10 — -36X2 14 /36.2 DEI3

-X1 29 / -X1 30 (T>> 26T1) — -X3.2 11 — -36X2 15 /36.2 DEI3 — -124K8 A1 A2

-1XM:4 /123.8 — -1XM:4 /125.1

-124K4: 11 14 12 /118.3

-124K8: 11 14 12 /118.4

STU2 OLTC over temp. trip n.c. STU2-OLTC T>

STU2 oil temp. alarm

STU2 oil temp. trip

STU2-öT

Bildbeschreibung
IMAGE DESCRIPTION
Step up transformer 2 protection

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

Step up transformer 2 protection

19F3.L+ /124.8 → /126.1

19F3-STU2 /124.8 → /126.1

+STU2
Step-Up Transformator 2 extension

-1XM:4 /124.8 → /126.1

Function	Contact	Terminals -X1	-X3.2	Input -36X2 (/36.2, DEI3)
STU2 overpressure	63T p>	33 / 34	12	16
STU2 oil level min n.o.	99T L<	5 / 6	13	17
STU2 oil level max n.c.	99T L>	8 / 9	14	18
STU2 tap changer oil level min n.o.	99C L<	14 / 15	15	19

-125K2 A1 A2; contact 11 14 12 /118.5

STU2-press.>

Bildbeschreibung IMAGE DESCRIPTION	Step up transformer 2 protection

Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
Desig.	A. Stellmann				43730	43730
Check	A. Stellmann					page 125 / 215 BL
Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

Index	changing	Date	name

19F3.L+ /125.8 → /129.1

19F3-STU2 /125.8

-X1 17

F816

-X1 18

+STU2
Step-Up Transformator 2 extension

-X3.2 16 · -X3.2 17 · -X3.2 18

-36X2 20 /36.2 DEI3
-36X2 21 /36.2 DEI3
-36X2 22 /36.2 DEI3

-40X5 DA 1 BHKS 1 /40.5 21

-126K8 A1 A2

-1XM:4 /125.8 → /127.1

11 14 12

STU2 tap changer oil level max n.c.

spare

Bildbeschreibung
IMAGE DESCRIPTION

Step up transformer 2 protection

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. · Ers.f. · Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 · 43730

=DPP
+CCP

/122.8 19F8.L+

19F8.L+ /149.1

-X1.7 20

+0STU2-X1 516

5000i/kwh

+0STU2-X1 539

+STU2
Step-Up Transformator 2 extension

-X1.7 21

PE.

-36X2
/36.2
DEI3

30

DEI3

/126.8 -1XM:4

-1XM:4 /129.1

kWh counter STU2 1251/1664kWh

Bildbeschreibung
IMAGE DESCRIPTION

kWh counter input STU2

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501		=DPP +CCP
				Desig.	A. Stellmann						
				Check	A. Stellmann				43730	43730	page 127 215 BL
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05				

Bildbeschreibung
IMAGE DESCRIPTION
spare

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines		KUHSE		DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501		=DPP +CCP	
				Desig.	A. Stellmann									
				Check	A. Stellmann						43730	43730		page 128
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d.	29.06.05					215 BL

19F3.L+ /126.8
19F3.L+ /130.1
19F3:0STU2 /136.7
+0STU2
4,16kV MV2 Outg. feeder step up transf.2

-X1.7 7

-X1 502 — -X1 522
-X1 501 — -X1 521
-X1 509 — -X1 530
-X1 510 — -X1 532
-X1 506 — -X1 527
-X1 508 — -X1 529

Plug withdrawn

-X1.7 8
-X1.7 9
-X1.7 10
-X1.7 11
-X1.7 12
-X1.7 13

-36X2 24 /36.2 DEI3 +EB
-129K6 11 14 .6
-36X2 25 /36.2 DEI3
-37X1 03 /37.1 DI4
-36X2 26 /36.2 DEI3

-129K1 A1 A2
-129K2 A1 A2
-129K3 A1 A2
-129K3.1 A1 A2
-129K4.1 A1 A2
-129K4.2 A1 A2
-129K6 A1 A2

-1XM:4 /127.8
-1XM:4 /130.1

11 14 12 /75.2

13 14 /140.3
23 24 /140.2
33 34 /83.6
43 44 /77.7
53 54 /147.3
61 62 /80.6
71 72 /92.1
83 84 /77.2

13 14 /215.7
23 24
33 34
43 44

15 18 16 /83.6
25 28 26

13 14 /80.7
23 24 /81.7
33 34 /83.7
44 43
53 54
63 64
73 74
83 84

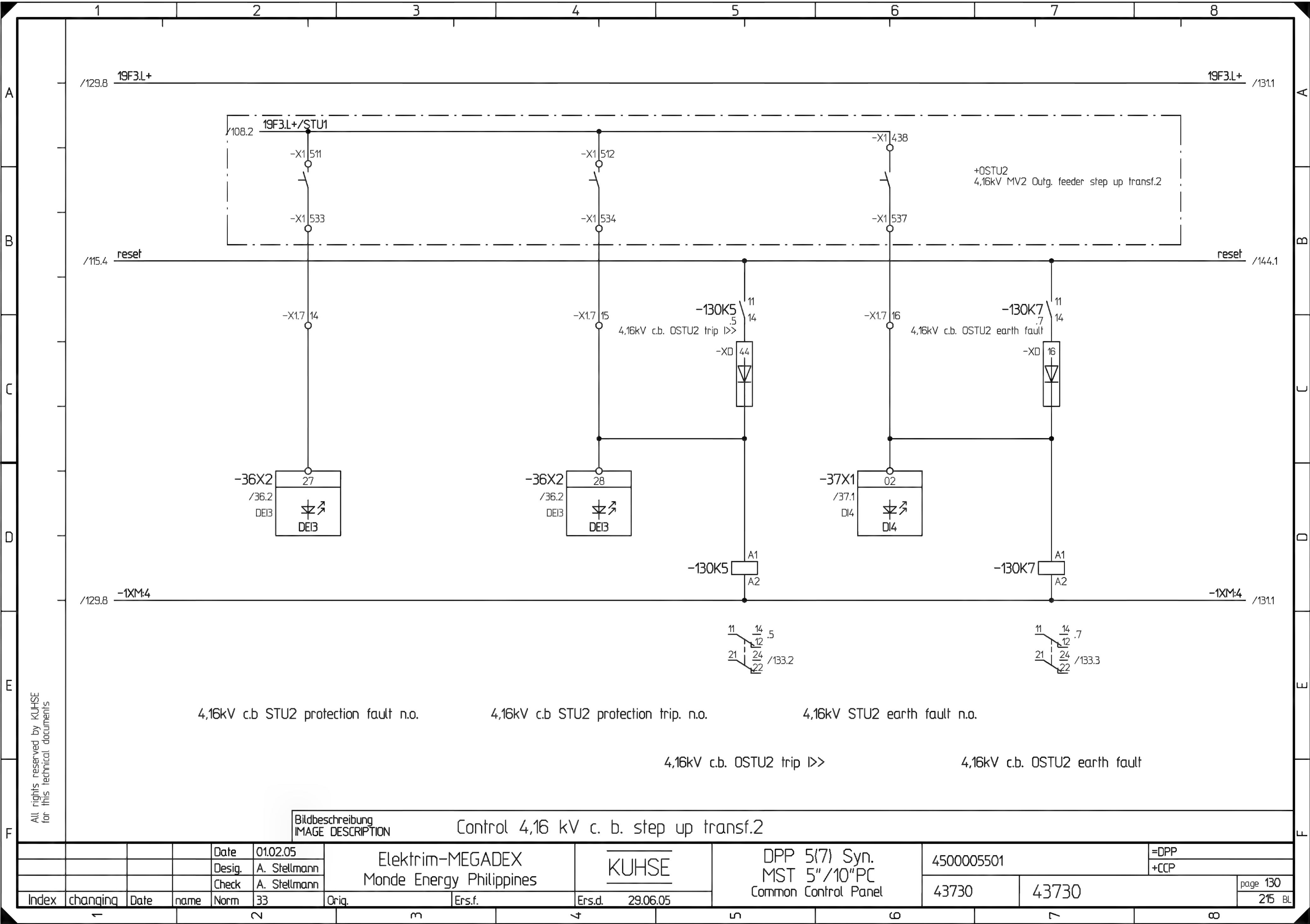
11 14 12 /133.3

11 14 12 .4

4,16kV c.b. STU2 off
STU2.c.b. off STU2.c.b. off STU2.c.b. off 0,5sec
4,16kV c.b. STU2 on
STU2.c.b. on
13,8kV STU2 earthing sw. off
m.c.b. tripped panel +0STU2 n. o.
4,16kV c.b. STU2 in service
11kV c.b. STU1 plug withdrawn

Bildbeschreibung IMAGE DESCRIPTION: Control 4,16kV c. b. step up transf.2

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ersf.	Ers.d. 29.06.05			page 129 / 215 BL


19F3.L+ /129.8
19F3.L+ /131.1
19F3.L+/STU1 /108.2
-X1 511
-X1 533
-X1 512
-X1 534
-X1 438
-X1 537
+OSTU2
4,16kV MV2 Outg. feeder step up transf.2
reset /115.4
reset /144.1
-X1.7 14
-X1.7 15
-X1.7 16
-130K5 .5 11 14
4,16kV c.b. OSTU2 trip I>>
-130K7 .7 11 14
4,16kV c.b. OSTU2 earth fault
-XD 44
-XD 16
-36X2 /36.2 DEI3 27 DEI3
-36X2 /36.2 DEI3 28 DEI3
-37X1 /37.1 DI4 02 DI4
-130K5 A1 A2
-130K7 A1 A2
-1XM:4 /129.8
-1XM:4 /131.1
/133.2
/133.3
4,16kV c.b STU2 protection fault n.o.
4,16kV c.b STU2 protection trip. n.o.
4,16kV STU2 earth fault n.o.
4,16kV c.b. OSTU2 trip I>>
4,16kV c.b. OSTU2 earth fault
Bildbeschreibung
IMAGE DESCRIPTION
Control 4,16 kV c. b. step up transf.2
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig. Ers.f. Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
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215 BL

Bildbeschreibung
IMAGE DESCRIPTION

Indication 4,16kV c.b. step up tr.2 ext.

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 131 / 215 BL

Bildbeschreibung
IMAGE DESCRIPTION

4,16kV step up transf. 2 c. b. control

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

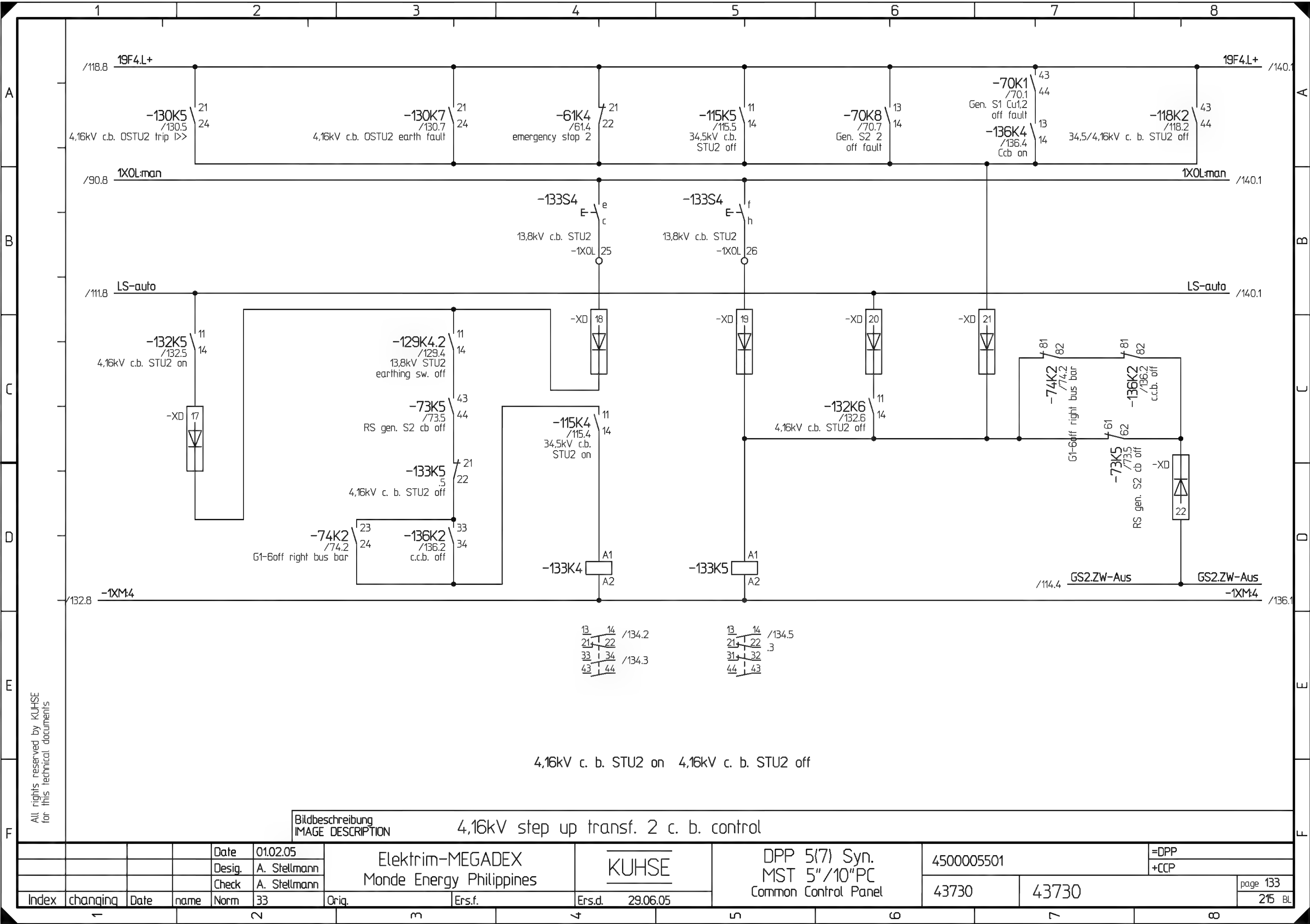
KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP



Bildbeschreibung
IMAGE DESCRIPTION

4,16kV step up transf. 2 c. b. control

Date	01.02.05
Desig.	A. Stellmann
Check	A. Stellmann
Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

KUHSE

Ersd. 29.06.05

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 43730

=DPP
+CCP

+OSTU2
4,16kV MV2 Outg. feeder step up transf.2

-X1 322
-X1 328
-X1 304

-X1.7 1
-X1.7 5
-X1.7 3

-132K2 /132.2 sy. select'n rails STU2 (53, 54)
-133K4 /133.4 4,16kV c. b. STU2 on (13, 14)
-153K8 /153.8 synchron. relay (7, 4)

-133K4 /133.4 4,16kV c. b. STU2 on (33, 34)
-132K4 /132.4 sy. select'n rails STU2 (43, 44)
-153K8 /153.8 synchron. relay (8, 5)

-133K5 /133.5 4,16kV c. b. STU2 off (13, 14)

-X1.7 2
-X1.7 6
-X1.7 4

-X1 334
-X1 329
-X1 323

+OSTU2
4,16kV MV2 Outg. feeder step up transf.2

11kV OSTU2 c. b. on

11kV OSTU2 c. b. off

Bildbeschreibung
IMAGE DESCRIPTION
4,16kV step up transf. 2 c. b. control

			Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
			Desig.	A. Stellmann					
			Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05	page 134 / 215 BL

Bildbeschreibung
IMAGE DESCRIPTION

spare

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

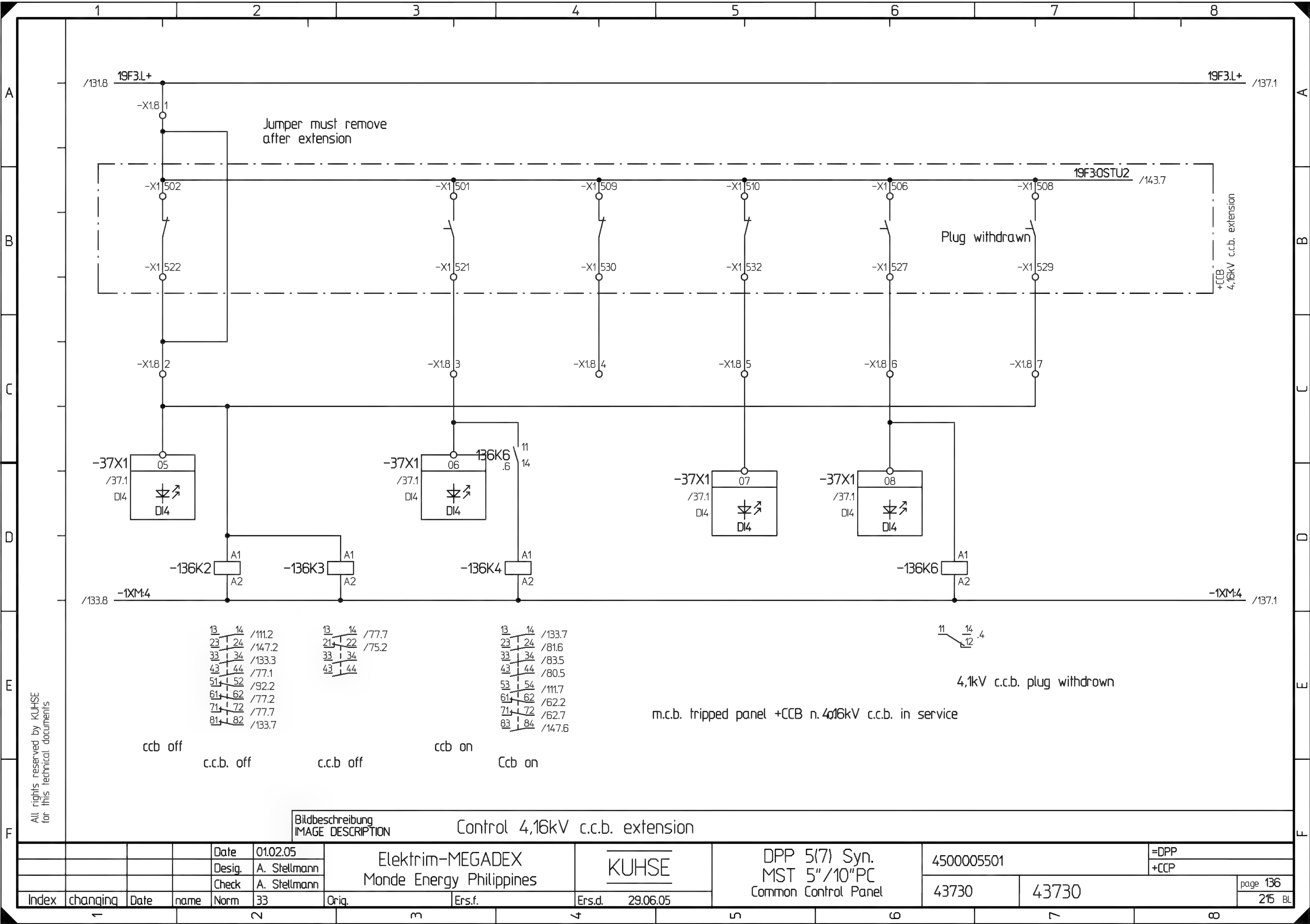
KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP



19F3.L+ /131.8
19F3.L+ /137.1
-X1.8 1
Jumper must remove
after extension
19F3:0STU2 /143.7
-X1 502
-X1 501
-X1 509
-X1 510
-X1 506
-X1 508
Plug withdrawn
-X1 522
-X1 521
-X1 530
-X1 532
-X1 527
-X1 529
+CCB
4,16kV c.c.b. extension
-X1.8 2
-X1.8 3
-X1.8 4
-X1.8 5
-X1.8 6
-X1.8 7
-37X1 /37.1 DI4 05 DI4
-37X1 /37.1 DI4 06 DI4
136K6 .6 11 14
-37X1 /37.1 DI4 07 DI4
-37X1 /37.1 DI4 08 DI4
-136K2 A1 A2
-136K3 A1 A2
-136K4 A1 A2
-136K6 A1 A2
-1XM:4 /133.8
-1XM:4 /137.1
13 14 /111.2
23 24 /147.2
33 34 /133.3
43 44 /77.1
51 52 /92.2
61 62 /77.2
71 72 /77.7
81 82 /133.7
13 14 /77.7
21 22 /75.2
33 34
43 44
13 14 /133.7
23 24 /81.6
33 34 /83.5
43 44 /80.5
53 54 /111.7
61 62 /62.2
71 72 /62.7
83 84 /147.6
11 14 12 .4
4,1kV c.c.b. plug withdrown
m.c.b. tripped panel +CCB n.4o16kV c.c.b. in service
ccb off
c.c.b. off
c.c.b off
ccb on
Ccb on
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Bildbeschreibung
IMAGE DESCRIPTION
Control 4,16kV c.c.b. extension
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
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/136.8 19F3.L+ —— 19F3.L+ /138.1

/136.8 -1XM:4 —— -1XM:4 /138.1

Bildbeschreibung
IMAGE DESCRIPTION: spare

Index	changing	Date	name							
				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 137 / 215 BL

19F3.L+ /137.8 — 19F3.L+ /143.1

-X1.8 8

+CCB
4,16kV c.c.b. extension

-X1 504 — -X1 503

-X1 524 — -X1 417

-X1.8 9 — -X1.8 10

-1XOL 34 — -1XOL 35

-138H3

1XOL:L-19F3 /131.3 — 1XOL:L-19F3 /169.6

-1XM:4 /137.8 — -1XM:4 /139.1

4,16kV c.c.b.

Bildbeschreibung IMAGE DESCRIPTION: Indication 4,16kV c.c.b. ext.

			Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
			Desig.	A. Stellmann					
			Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05	page 138 / 215 BL

/132.8 19F7.L+ — 19F7.L+ /146.1

/138.8 -1XM:4 — -1XM:4 /140.1

Bildbeschreibung
IMAGE DESCRIPTION
spare

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 139 / 215 BL

4,16kV c.c.b. control ext.

/133.8 19F4.L+ — 19F4.L+ /147.1

/133.8 1X0L:man — 1X0L:man

/133.8 LS-auto — LS-auto

/139.8 -1XM:4 — -1XM:4 /143.1

-140S5 E- e c 4,16kV c.c.b. -1X0L 32

-140S5 E- f h 4,16kV c.c.b. -1X0L 33

-129K2 /129.2 STU2.c.b. off 13 14

-107K2 /107.2 STU1.c.b. off 34 33

-74K2 /74.2 G1-6off right bus bar 71 72

-73K5 /73.5 RS gen. S2 cb off 71 72

-73K5 /73.5 RS gen. S2 cb off 23 24

-129K2 /129.2 STU2.c.b. off 24 23

-107K2 /107.2 STU1.c.b. off 43 44

-74K2 /74.2 G1-6off right bus bar 53 54

-140K6 .6 4,16kV c.c.b. off 21 22

-140K5 A1 A2

-140K6 A1 A2

-140K5 contacts: 13 14 /141.2; 21 22; 33 34 /141.3; 43 44

-140K6 contacts: 13 14 /141.5; 21 22 .5; 31 32; 44 43

4,16kV c.c.b. on

4,16kV c.c.b. off

Bildbeschreibung IMAGE DESCRIPTION	4,16kV c.c.b. control ext.				
Date 01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
Desig. A. Stellmann				43730	43730
Check A. Stellmann	Orig.	Ers.f.	Ers.d. 29.06.05		page 140 215 BL
Index / changing / Date / name / Norm 33					

+CCB
4,16kV c.c.b. extension

-X1 322
-X1 328
-X1 304

-X1.12 8
-X1.12 12
-X1.12 10

-140K5 13 14
/140.5
4,16kV c.c.b. on

-140K5 33 34
/140.5
4,16kV c.c.b. on

-140K6 13 14
/140.6
4,16kV c.c.b. off

-X1.12 9
-X1.12 13
-X1.12 11

-X1 334
-X1 329
-X1 323

+CCB
4,16kV c.c.b. extension

4,16kV c.c.b. on

4,16kV c.c.b. off

Bildbeschreibung
IMAGE DESCRIPTION
4,16kV c.c.b. control ext.

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

Bildbeschreibung
IMAGE DESCRIPTION

spare

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

19F3.L+ /138.8 — 19F3.L+ /144.1

-X1.9 5, -W23 1

+ISDT Incoming step down transformer 4,16kV

19F3:0STU2 /136.7

-X1 502 / -X1 522; -X1 501 / -X1 521; -X1 509 / -X1 530; -X1 510 / -X1 532; -X1 506 / -X1 527; -X1 508 / -X1 529

Plug withdrawn

-W23 2, 3, 4, 5, 6, 7

-X1.9 6, -X1.9 7, -X1.9 8, -X1.9 9, -X1.9 10, -X1.9 11

-37X1 10 /37.1 DI4

-37X1 11 /37.1 DI4

-143K6 .6 11 14

-37X1 16 /37.1 DI4

-37X1 12 /37.1 DI4

-143K2 A1 A2

-143K3.1 A1 A2

-143K3.2 A1 A2

-143K6 A1 A2

-1XM:4 /140.8 — -1XM:4 /144.1

13 14 /74.3; 23 24 /77.2; 33 34; 43 44; 53 54; 61 62 /62.4; 71 72; 83 84

13 14 /80.4; 23 24 /81.5; 33 34; 43 44; 53 54; 63 64; 73 74; 83 84

11 14 12 /147.3; 21 24 22 /62.4

11 14 12 .3

4,16kV step down transf. c. b. off

ISDT.c.b. off

4,16kV step down transf. c. b. on

ISDT c.b. on

4,16kV ISDT earthing sw. off

4,16kV c.b. step down tr. m.c.b. tripped

4,16kV step down transf. c. b. service

Bildbeschreibung IMAGE DESCRIPTION: Control 4,16kV c. b. step down transf.

Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
Check	A. Stellmann			Common Control Panel	43730	43730
Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05		page 143 / 215 BL

Index | changing | Date | name

Bildbeschreibung
IMAGE DESCRIPTION

Control 4,16kV c. b. step down transf.

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ersf.	Ers.d. 29.06.05			page 144 / 215 BL

19F3.L+ /144.8 — 19F3.L+ /157.1

-X1.9 15
-W23 11
-X1 504
-X1 503
-X1 524
-X1 417

+ISDT
Incoming step down transformer 4,16kV

-W23 12
13
-X1.9 16
-X1.9 17
-1X0R 35
-1X0R 36

-145H3 (1, 2, 3)

/109.3 1X0R:L-19F3 — 1X0R:L-19F3 /157.6

-1XM:4 /144.8 — -1XM:4 /146.1

4,16kV c.b. step down transf.

Bildbeschreibung
IMAGE DESCRIPTION
Indication 4,16kV c.b. step down transf.

Index	changing	Date	name	Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ersf. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501
43730 | 43730

=DPP
+CCP

/139.8 19F7.L+

19F7.L+ /151.1

/145.8 -1XM:4

-1XM:4 /147.1

Bildbeschreibung
IMAGE DESCRIPTION
spare

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 146 / 215 BL

19F4.L+ /140.8 — 19F4.L+ /214.1

1X0R-man /111.8 — 1X0R-man

-1XM:4 /146.8 — -1XM:4 /149.1

-144K5 /144.5 21 24 — 4,16kV c.b. ISDT trip I>>

-149K6 /149.6 11 12 — SDT P>

-143K3.2 /143.3 11 12 — 4,16kV ISDT earthing sw. off

-70K4 /70.4 43 44 — Gen. Cat 1-3 off fault

-149K3 /149.3 11 12 — SDT.T>

-70K8 /70.7 43 44 — Gen. S2 2 off fault

-70K1 /70.1 33 34 — Gen. S1 Cu1,2 off fault

-144K7 /144.7 21 24 — 4,16kV c.b. ISDT earth fault

-147S4 E- e c — 4,16kV c.b. step down transf. — -1X0R 37

-147S4 E- f h — 4,16kV c.b. step down transf. — -1X0R 38

-136K4 /136.4 83 84 — Ccb on

-74K4 /74.4 21 22 — GCa1-3-off

-XD 45

-XD 46

-74K4 /74.4 13 14 — GCa1-3-off

-136K2 /136.2 23 24 — c.c.b. off

-76K7 /76.7 61 62 — RS gen. S2 cb on

-129K2 /129.2 53 54 — STU2.c.b. off

-74K2 /74.2 33 34 — G1-6off right bus bar

-107K2 /107.2 53 54 — STU1.c.b. off

-147K5 .5 21 22 — 4,16kV step down transf. c. b. off

-147K4 A1 A2

-147K5 A1 A2

-147K4 13 14, 21 22 /148.2; 33 34, 43 44 /148.3

-147K5 13 14, 21 22 /148.5; 31 32 .4; 43 44

4,16kV step down transf. c. b. on

4,16kV step down transf. c. b. off

Bildbeschreibung / IMAGE DESCRIPTION: 4,16kV step down transf. c. b. control

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ersf. | Ersd. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

+ISDT
Incoming step down transformer 4,16kV

-X1 322
-W24 1
-X4.4 7
-147K4 13 14
/147.4
4,16kV step down transf. c. b. on
-X4.4 8
-W24 2
-X1 334

-X1 328
5
-X4.4 11
-147K4 33 34
/147.4
4,16kV step down transf. c. b. on
-X4.4 12
6
-X1 329

-X1 304
3
-X4.4 9
-147K5 13 14
/147.5
4,16kV step down transf. c. b. off
-X4.4 10
4
-X1 323

+ISDT
Incoming step down transformer 4,16kV

4,16kV step down transf. c. b. on

4,16kV step down transf. c. b. off

Bildbeschreibung IMAGE DESCRIPTION: 4,16kV step down transf. c. b. control

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 148 / 215 BL

19F8.L+ /127.8 — 19F8.L+ /158.1

-1XM:4 /147.8 — -1XM:4 /151.1

+SDT
Step down transformer

-X4.4 1, -W21 1, -X1 9, T> 26, -X1 8, -W21 2, -X4.4 2, -37X1 17 /37.1 DI4

-X1 10, -149S2 T>> 26, -X1 11, 3, -X4.4 3, -37X1 18 /37.1 DI4

-X1 3, L< 99, -X1 2, 4, -X4.4 4, -37X1 19 /37.1 DI4

-X1 5, -149S6 P> 63, -X1 4, 6, -X4.4 6, -37X1 20 /37.1 DI4

-149K3 A1 A2 — 11 14 12 21 24 22 /147.5

-149K6 A1 A2 — 11 14 12 21 24 22 /147.2

Step down tr. oiltemp. max alarm

Step down tr. oiltemp. max tripped n.c.

Step down tr. oil level low n.c.
SDT.T>

Step down tr. overpressure n.c.

SDT P>

Bildbeschreibung
IMAGE DESCRIPTION
Signals from step down transformer

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 149 / 215 BL

Bildbeschreibung
IMAGE DESCRIPTION

spare

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

19F7.L+ /146.8 — 19F7.L+ /160.1

-40X5 DA 1 BHKS 1 /40.5 — 12

-40X5 DA 1 BHKS 1 /40.5 — 15

+EB

-151K1 A1 A2

-151K2 A1 A2

-1XM:4 /149.8 — -1XM:4 /153.3

11 14 12 /153.4

11 14 12 /156.4

release KSY STU1-2

release KSY ST1-2

Bildbeschreibung
IMAGE DESCRIPTION

control synchronizing device

				Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ersf.	Ers.d. 29.06.05			page 151 / 215 BL

/92.4 1307-ISU1.L1 — 1307-ISU1.L1
/92.4 1307-ISU1.L2 — 1307-ISU1.L2
/92.4 1307-ISU1.L3 — 1307-ISU1.L3

/114.4 1407-ISU2.L1 — 1407-ISU2.L1
/114.4 1407-ISU2.L2 — 1407-ISU2.L2
/114.4 1407-ISU2.L3 — 1407-ISU2.L3

-110K2 /110.2 sy. select'n rails STU1 — 13 14, 23 24, 33 34
-132K2 /132.2 sy. select'n rails STU2 — 13 14, 23 24, 33 34

SY.SS.L1 — SY.SS.L1 /153.1
SY.SS.L2 — SY.SS.L2 /153.1
SY.SS.L3 — SY.SS.L3 /153.1

SY.GEN.L1 — SY.GEN.L1 /153.1
SY.GEN.L2 — SY.GEN.L2 /153.1
SY.GEN.L3 — SY.GEN.L3 /153.1

-110K2 /110.2 sy. select'n rails STU1 — 43 44, 73 74, 83 84
-132K2 /132.2 sy. select'n rails STU2 — 43 44, 73 74, 83 84

/5.7 507-B1.L1 — 507-B1.L1
/5.7 507-B1.L2 — 507-B1.L2
/5.7 507-B1.L3 — 507-B1.L3

/6.7 607-B2.L1 — 607-B2.L1
/6.7 607-B2.L2 — 607-B2.L2
/6.7 607-B2.L3 — 607-B2.L3

Bildbeschreibung IMAGE DESCRIPTION: selection voltage synchron. STU1-2

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann				43730	43730
				Check	A. Stellmann	Orig.	Ers.f.	Ers.d. 29.06.05		page 152
				Norm	33					215 BL

Bildbeschreibung IMAGE DESCRIPTION	Synchonising unit KSY 041 STU1-2

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 153 / 215 BL

/153.6 n<-KSY

/153.6 n>-KSY

/153.8 19F5.L+

19F5.L+ /156.3

n<-KSY-ST1-2 /156.6

n>-KSY-ST1-2 /156.6

-X12-GCPC 18

=.GCBC-9W1 7
=.GCBC/10.6

+GCBC
34,5kv Grid c. b. control

=.GCBC-9W1 8
=.GCBC/10.6

=.GCBC/10.7 9

-X12-GCPC 19

-X12-GCPC 20

-XD 14

-XD 56

-34X1 16 /34.1 DI 1

-34X1 17 /34.1 DI 1

-37X1 21 /37.1 DI4 DI4

-37X1 22 /37.1 DI4 DI4

speed < genset STU1-2

speed > genset STU1-2

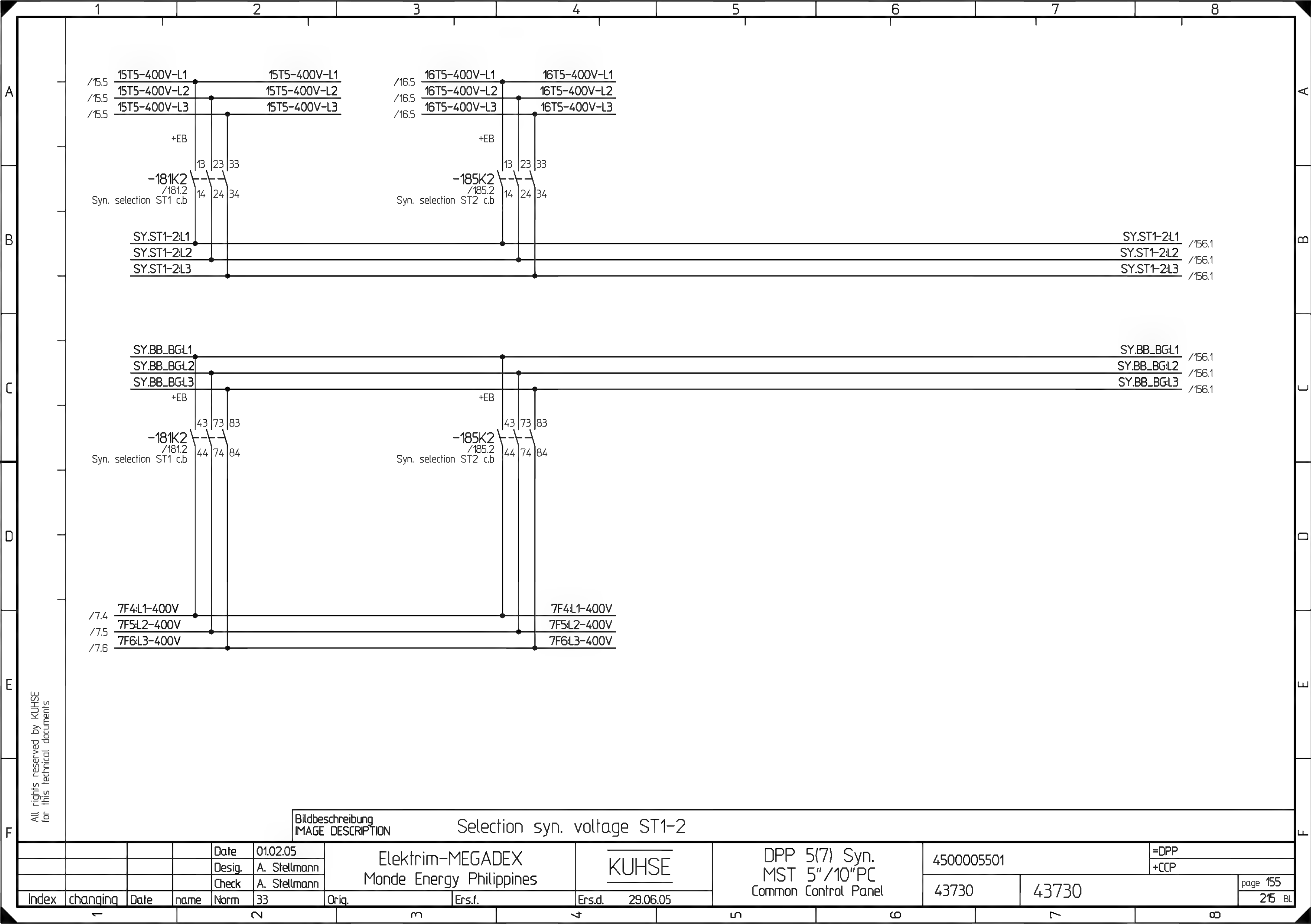
speed < BG

speed > BG

Bildbeschreibung
IMAGE DESCRIPTION

Synchonising pulse

				Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 154 / 215 BL



Bildbeschreibung IMAGE DESCRIPTION: Selection syn. voltage ST1-2

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 155 / 215 BL

/155.8 SY.ST1-2:L1 — SY.ST1-2:L1
/155.8 SY.ST1-2:L2 — SY.ST1-2:L2
/155.8 SY.ST1-2:L3 — SY.ST1-2:L3
/153.3 PE — PE

/154.8 19F5.L+ — +EB — 19F5.L+

-151K2 11 14
/151.2
release KSY ST1-2

n<-KSY-ST1-2 /154.6
n>-KSY-ST1-2 /154.6

-156A1
+EB
X1 1 2 3 4 Busbar-mains voltage
-156A1, 2171003000, KSY 041, 3X 400V, 60HZ
X4 6 7 8
X2 1 2 3 4 generator voltage
X3:1 24V
X3:2 24V
LWL
X3:3 U < X3:4
X4:3 PARA 2 — U > X3:5
X4:4 U-/f-stand. — N < X3:6
X4:5 NAE — N > X3:7
Syn.
X4:2 KSR X3:8
X4:1

/155.8 SY.BB_BG:L1 — SY.BB_BG:L1
/155.8 SY.BB_BG:L2 — SY.BB_BG:L2
/155.8 SY.BB_BG:L3 — SY.BB_BG:L3

+EB
-156K7 A1 A2

/153.8 -1XM:4 — -1XM:4 /157.1

7 4 1 /180.7
8 5 2 /184.7
9 6 3

PE — PE /204.1

generator voltage

busbar voltage

Synchron relay ST1/2

Bildbeschreibung IMAGE DESCRIPTION: Synchronising unit KSY11 for ST1-2

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 156 / 215 BL

19F3.L+ /145.8

19F3.L+ /163.1

-X1.2 1

-W15 1

-157K3 11 14 .3
4,16kV c.b. OST1 on

19F8:OST1 /158.2

+OST1
Outgoing station transformer 1

-X1 501
c.b on
c.b on
-X1 521
-W15 2
-X1.2 2

-X1 508
earthing sw. off
-X1 528
3
-X1.2 3

-X1 502
c.b. off
-X1 522
4
-X1.2 4

-XD 27

-1X0R 39
-1X0R 40

-38X2 02 /38.2 DI5 DI5

-38X2 03 /38.2 DI5 DI5

-157H6 1 2 3

-157K3 A1 A2

-157K5 A1 A2

/145.3 1X0R:L-19F3

1X0R:L-19F3 /163.6

-1XM:4 /156.8

-1XM:4 /158.1

11 14 12 21 24 22 .7

11 14 12 21 24 22 /180.4

4,16kV OST1 earthing switch off

4,16kV OST1 c.b. on

4,16kV c.b. OST1 on

4,16kV c.b. OST1 off

Bildbeschreibung
IMAGE DESCRIPTION

Signals from +OST1 outg. st. tr. 1 c.b.   MV- station transformer 1 c. b.

Index	changing	Date	name					
				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel
				Desig.	A. Stellmann			
				Check	A. Stellmann			
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05	

4500005501

=DPP
+CCP

43730   43730

/149.8 19F8.L+ — 19F8.L+ /159.1

/144.8 reset — reset /164.1

/157.7 19F8:OST1 — 19F8:OST1 /163.7

-X1 504 — -X1 524 — -W15 6 — -X1.2 6 — -38X2 04 /38.2 DI5 — DI5

-X1 506 — -X1 526 — 7 — -X1.2 7 — -38X2 05 /38.2 DI5 — DI5

+OST1
Outgoing station transformer 1

/157.8 -1XM:4 — -1XM:4 /159.1

4,16kV OST1 HV fuse tripped

4,16kV OST1 m.c.b. tripped

Bildbeschreibung
IMAGE DESCRIPTION
Signals from +OST1 outg. st. tr. 1 c.b.

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 158 / 215 BL

Signals from station transformer 1

19F8.L+ /158.8 — 19F8.L+ /164.1

-1XM:4 /158.8 — -1XM:4 /160.1

+ST1
Station transformer 1

-X4.1 1, -W16 1, -X1 9, T> 26, -X1 8, -W16 2, -X4.1 2, -38X2 06 /38.2 DI5

-X1 10, -159S2 T>> 26, -X1 11, 3, -X4.1 3, -38X2 07 /38.2 DI5, -159K3 A1 A2 (11 14 12 /160.1; 21 24 22 /180.2)

-X1 3, L< 99, -X1 2, 4, -X4.1 4, -38X2 08 /38.2 DI5

-X1 5, -159S6 P> 63, -X1 4, 6, -X4.1 6, -38X2 09 /38.2 DI5, -159K6 A1 A2 (11 14 12 /160.2; 21 24 22 /180.3)

Station tr. 1 oiltemp. max alarm

Station tr. 1 oiltemp. max tripped n.c.

Station tr. 1 oil level low n.c.
St.1T>

Station tr. 1 overpressure n.c.

Station tr. 1 P>

Bildbeschreibung IMAGE DESCRIPTION	Signals from station transformer 1

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann					
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05		43730 / 43730	page 159 / 215 BL

/151.8 19F7.L+

19F7.L+ /166.1

-159K3 /159.3 St.1T> 11 12

-159K6 /159.6 Station tr. 1 P> 11 12

-160K2 A1 A2

/159.8 -1XM:4

-1XM:4 /163.1

11 14 12 /161.1

4,16kV OST1 switch off

Bildbeschreibung
IMAGE DESCRIPTION

Control 4,16kV c. b. station tr. 1

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. Ers.f.	Ers.d. 29.06.05			page 160 / 215 BL

+OST1
Outgoing station transformer 1

-X1 303

-W19 1

-X1.2 12

-160K2 11 14
/160.2
4,16kV OST1 switch off

-X1.2 13

-W19 2

-X1 326

+OST1
Outgoing station transformer 1

C.b. closing inhibit

Bildbeschreibung
IMAGE DESCRIPTION

Control 4,16kV c. b. station tr. 1

			Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
			Desig.	A. Stellmann					
			Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm 33	Orig. / Ers.f.	Ers.d. 29.06.05			page 161 215 BL

Bildbeschreibung
IMAGE DESCRIPTION
spare

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 162 / 215 BL

Bildbeschreibung
IMAGE DESCRIPTION

Signals from +OST2 outg. st. tr. 2 c.b.

			Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
			Desig.	A. Stellmann					
			Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05	page 163 / 215 BL

/159.8 19F8.L+ ... 19F8.L+ /165.1

/158.8 reset ... reset /170.1

/163.7 19F8:OST1 ... 19F8:OST1 /169.7

-X1 504 — -X1 524 — -W17 6 — -X1.3 6 — -38X2 13 /38.2 DI5 DI5

-X1 506 — -X1 526 — 7 — -X1.3 7 — -38X2 14 /38.2 DI5 DI5

+OST2
Outgoing station transformer 2

/163.8 -1XM:4 ... -1XM:4 /165.1

4,16kV OST2 m.c.b. tripped

4,16kV OST2 HV fuse tripped

Bildbeschreibung
IMAGE DESCRIPTION

Signals from +OST2 outg. st. tr. 2 c.b.

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

19F8.L+ /164.8 — 19F8.L+ /170.1

-X4.2 1
-W18 1

+ST2
Station transformer 2

-X1 9, T> 26, -X1 8
-X1 10, -165S2 T>> 26, -X1 11
-X1 3, L< 99, -X1 2
-X1 5, -165S6 P> 63, -X1 4

-W18 2 | 3 | 4 | 6
-X4.2 2 | -X4.2 3 | -X4.2 4 | -X4.2 6

-38X2 /38.2 DI5 — 15 DI5
-38X2 /38.2 DI5 — 16 DI5
-38X2 /38.2 DI5 — 17 DI5
-38X2 /38.2 DI5 — 18 DI5

-165K3 A1 A2
-165K6 A1 A2

-1XM:4 /164.8 — -1XM:4 /166.1

11 14 12 /166.1 21 24 22 /184.3
11 14 12 /166.2 21 24 22 /184.2

Station tr. 2 oiltemp. max alarm

Station tr. 2 oiltemp. max tripped n.c.

Station tr. 2 oil level low n.c.
St.2T>

Station tr. 2 overpressure n.c.

Station tr. 2 P>

Bildbeschreibung IMAGE DESCRIPTION: Signals from station transformer 2

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 165 / 215 BL

19F7.L+ /160.8 — 19F7.L+ /172.1

-165K3 /165.3 St.2T> 11 12

-165K6 /165.6 Station tr. 2 P> 11 12

-166K2 A1 A2

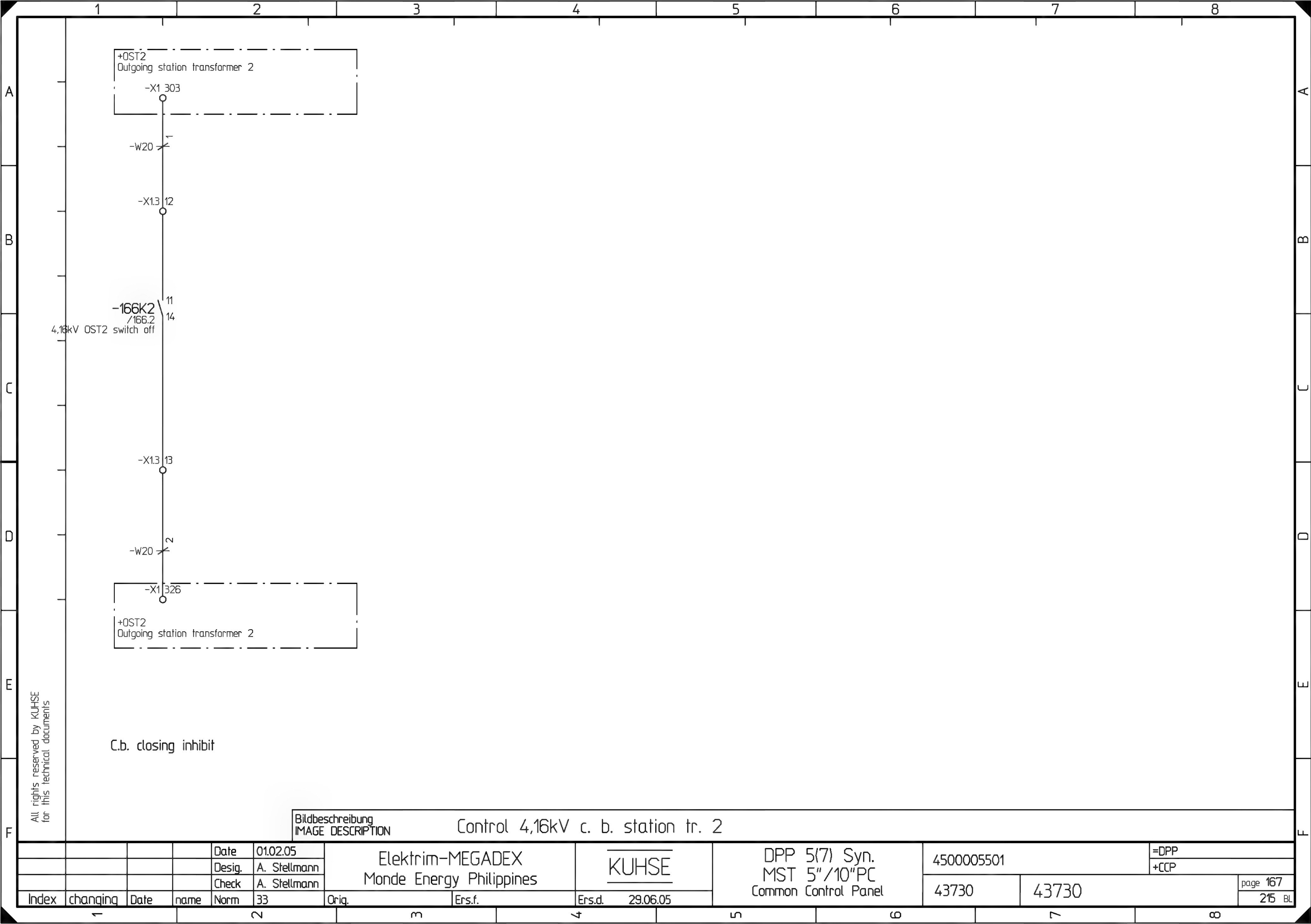
-1XM:4 /165.8 — -1XM:4 /169.1

11 14 12 /167.1

4,16kV OST2 switch off

Bildbeschreibung
IMAGE DESCRIPTION
Control 4,16kV c. b. station tr. 2

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 166 / 215 BL



+OST2
Outgoing station transformer 2
-X1 303
-W20 1
-X1.3 12
-166K2 11 14
/166.2
4,16kV OST2 switch off
-X1.3 13
-W20 2
-X1 326
+OST2
Outgoing station transformer 2
C.b. closing inhibit
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Bildbeschreibung
IMAGE DESCRIPTION
Control 4,16kV c. b. station tr. 2
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Elektrim-MEGADEX
Monde Energy Philippines
Orig.
Ers.f.
Ers.d. 29.06.05
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 167
215 BL

Bildbeschreibung
IMAGE DESCRIPTION

spare

19F3.L+ /163.8 — 19F3.L+ /176.1

-1XM:4 /166.8 — -1XM:4 /170.1

-X1.4 5

+OST3
Outgoing station transformer 3 extension

19F8:OST1 /170.2

-169K3 11 14 .3
4,16kV c.b. OST2 on

-X1 501 — c.b on — -X1 521 — -X1.4 6 — -38X2 20 /38.2 DI5

-X1 508 — earthing sw. off — -X1 528 — -X1.4 7 — -38X2 21 /38.2 DI5

-X1 502 — c.b. off — -X1 522 — -X1.4 8 — -XD 32 — -1X0L 36 — -169H6 1 2 3 — -1X0L 37

/138.3 1X0L:L-19F3 — 1X0L:L-19F3 /187.4

-169K3 A1 A2 — 11 14 12 21 24 22 .7

-169K5 A1 A2 — 11 14 12 21 24 22 /188.4

4,16kV OST3 c.b. on
4,16kV c.b. OST2 on

4,16kV OST3 earthing switch off

OST3-off

MV- station transformer 3 c. b. extension

Bildbeschreibung
IMAGE DESCRIPTION: Signals fr.+OST3 outg. st. tr. 3 c.b.ext

Index	changing	Date	name	Norm	33
Date	01.02.05	Desig.	A. Stellmann	Check	A. Stellmann

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

/165.8 19F8.L+ — 19F8.L+ /171.1

/164.8 reset — reset

/169.7 19F8:OST1 — 19F8:OST1

-X1 504 · -X1 524 · -X1.4 9

-X1 506 · -X1 526 · -X1.4 10

+OST3
Outgoing station transformer 3 extension

-38X2 /38.2 DI5 — 22 DI5

-38X2 /38.2 DI5 — 23 DI5

/169.8 -1XM:4 — -1XM:4 /171.1

4,16kV OST3 m.c.b. tripped

4,16kV OST3 HV fuse tripped

Bildbeschreibung IMAGE DESCRIPTION: Signals fr.+OST3 outg. st. tr. 3 c.b.ext

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 170 / 215 BL

19F8.L+ /170.8 — 19F8.L+ /187.1

+ST3
Station transformer 3 Extension

-X4.3 1

-X3 9 / -X3 8, T> 26
-171S2 T>> 26, -X3 10 / -X3 11
L< 99, -X3 3 / -X3 2
-171S6 P> 63, -X3 5 / -X3 4

-X4.3 2 — -38X2 24 /38.2 DI5
-X4.3 3 — -38X2 25 /38.2 DI5
-X4.3 4 — -38X2 26 /38.2 DI5
-X4.3 6 — -38X2 27 /38.2 DI5

-171K3 A1 A2
-171K6 A1 A2

-1XM:4 /170.8 — -1XM:4 /172.1

-171K3: 11 14 12 /172.1; 21 24 22 /188.3
-171K6: 11 14 12 /172.2; 21 24 22 /188.2

Station tr. 3 oiltemp. max alarm

Station tr. 3 oiltemp. max tripped n.c.

Station tr. 3 oil level low n.c.
St.3T>

Station tr. 3 overpressure n.c.

Station tr. 3 P>

Bildbeschreibung IMAGE DESCRIPTION: Signals from station transformer 3 ext.

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 171 / 215 BL

/166.8 19F7.L+

19F7.L+ /205.

-171K3 /171.3 St.3T> 11 12

-171K6 /171.6 Station tr. 3 P> 11 12

-172K2 A1 A2

/171.8 -1XM:4

-1XM:4 /176.1

11 14 12 /173.1

4,16kV OST3 switch off

Bildbeschreibung IMAGE DESCRIPTION: Control 4,16kV c. b. station tr. 3 ext.

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

+OST3
Outgoing station transformer 3 extension

-X1 303

-X1.4 11

-172K2 11 14
/172.2
4,16kV OST3 switch off

-X1.4 12

-X1 326

+OST3
Outgoing station transformer 3 extension

C.b. closing inhibit

Bildbeschreibung
IMAGE DESCRIPTION

Control 4,16kV c. b. station tr. 3 ext.

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP
				Desig.	A. Stellmann					+CCP
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

Bildbeschreibung
IMAGE DESCRIPTION

spare

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

Bildbeschreibung
IMAGE DESCRIPTION
spare

Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
Check	A. Stellmann			Common Control Panel	43730	43730
Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

Index | changing | Date | name

Internal failure indication

19F3.L+ /169.8 → /178.1

-1XM:4 /172.8 → /178.1

-8F4 /8.4 (23-24)
-8F5 /8.5 (24-23)
-8F6 /8.6 (23-24)
-9F5 /9.5 (24-23)
-9F6 /9.6 (23-24)
-10F4 /10.4 (24-23)
-10F5 /10.5 (23-24)

-10F6 /10.6 (24-23)
-11F2 /11.2 C20A (23-24)
-11F5 /11.5 C20A (24-23)
-19F1 /19.1 (24-23)
-19F2 /19.2 (23-24)
-19F3 /19.3 (24-23)
-19F4 /19.4 (23-24)

-19F5 /19.5 (24-23)
-19F6 /19.6 (23-24)
-19F7 /19.7 (24-23)
-19F8 /19.8 (23-24)
-20F1 /20.1 (24-23)
-20F2 /20.2 (23-24)
-20F3 /20.3 (24-23)

-20F4 /20.4 (23-24)
-20F5 /20.5 (24-23)
-20F6 /20.6 (23-24)
-21F1 /21.1 (24-23)

-5Q7 /5.7 (11-14)
-6Q7 /6.7 (11-14)
-11Q2 /11.2 1.2A (13-14)
-13Q7 /13.7 (14-11)
-14Q7 /14.7 (11-14)

-176K6 A1 A2

11 14 12 /67.6

-35X1 /35.1 DI2 01 DI2

m. c. b. tripped +CCP   M.c.b. tripped +CCP

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Bildbeschreibung IMAGE DESCRIPTION: Internal failure indication

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

Bildbeschreibung
IMAGE DESCRIPTION

spare

				Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

19F3.L+ /176.8 — 19F3.L+ /179.1

-X14 7
=.IST1-2-W1 1 =.IST1-2/19.1

19F3:ST1/2 /179.1

+IST1
Incoming station transformer 1

=.IST1-2/14.7
=.IST1-2/14.7
=.IST1-2/14.7
=.IST1-2-W5 1 2 S

=.IST1-2-W1 6 =.IST1-2/19.5
=.IST1-2-W1 3 =.IST1-2/19.2
=.IST1-2-W1 7 =.IST1-2/19.8

-X14 12
-X14 9
-X14 13

-35X1 /35.1 DI2 02 DI2
-35X1 /35.1 DI2 03 DI2
-35X1 /35.1 DI2 04 DI2

1 2 3 4 5
analogue input
12
90
PIN 5 = shield
-55A4
/55.4

-1XM:4 /176.8 — -1XM:4 /179.1

Selector sw. c.b. contr. +IST1/2 in release

M.c.b. tripped +IST1 n.c.

C.b. +IST1 tripped n.o.

Station transformer 1 LV
4-20mA=0-600kW

Bildbeschreibung
IMAGE DESCRIPTION
Signals from +IST1

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 178 / 215 BL

/178.8 19F3.L+ — 19F3.L+ /181.1

-179K1 .1 11 12
c.b. IST1 off

/178.5 19F3:ST1/2 — 19F3:ST1/2 /182.1

+IST1-2
Incoming station transformer 1+2

=.IST1-2-W1 2 =.IST1-2/19.1
-X14 8

=.IST1-2-W1 8 =.IST1-2/19.2
-X14 14

-XD 29

-1X0R 41 — -1X0R 42

-38X2 28 /38.2 DI5 DI5

-179H4 1 2 3

-38X2 10 /38.2 DI5 DI5

+EB

-179K1 A1 A2

-179K7 A1 A2

/163.7 1X0R:L-19F3 — 1X0R:L-19F3 /181.7

/178.8 -1XM:4 — -1XM:4 /181.1

11 14 12 .5
21 24 22 /77.8

13 14 /80.7
23 24 /81.8
33 34 /185.3
43 44 /92.3

c.b. IST1 off

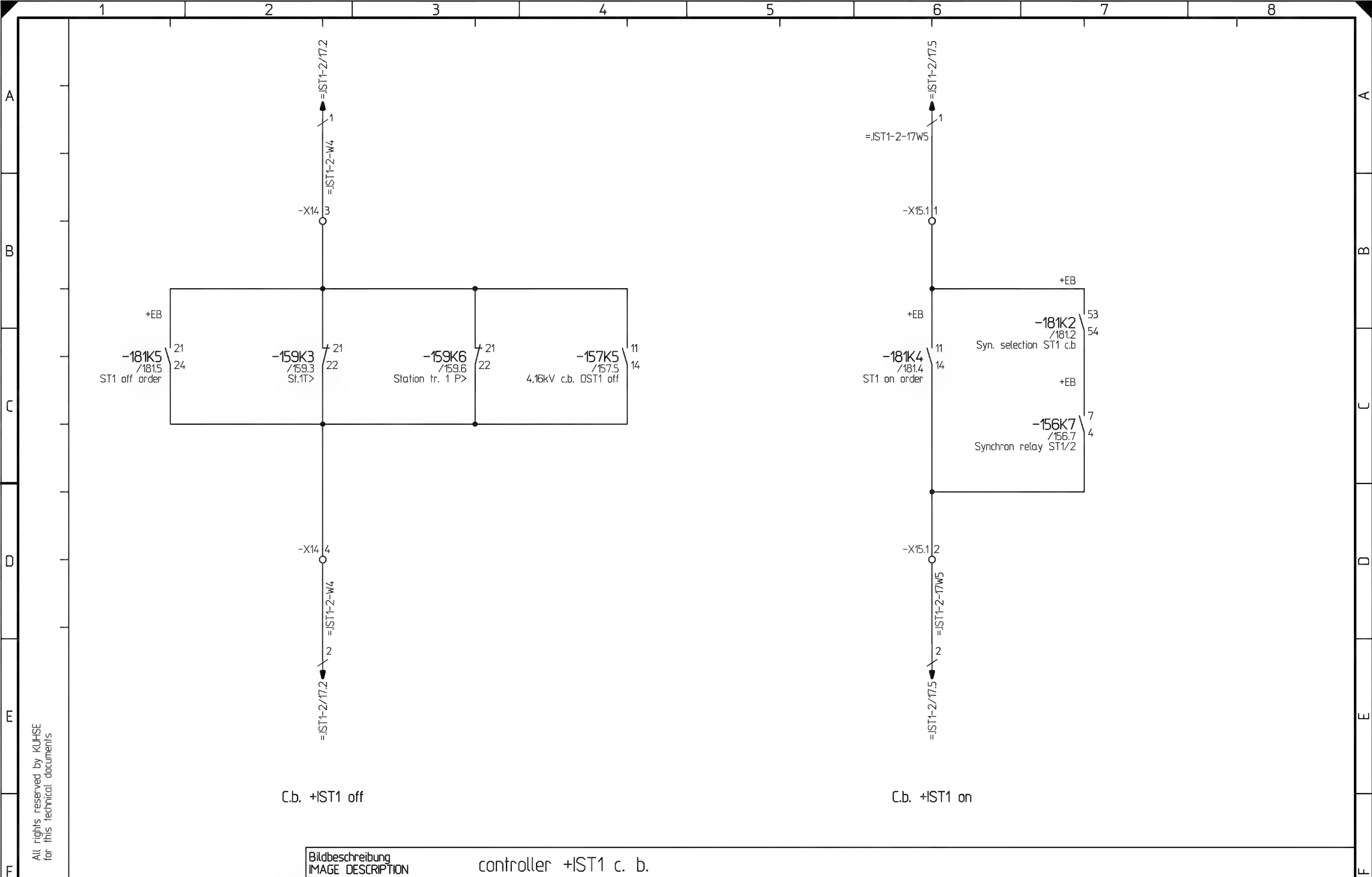
LV c.b. station tr. 1 off

LV c.b. station tr. 1 on LV c.b. station tr. 1 on

Station transformer 1 LV c. b.

Bildbeschreibung
IMAGE DESCRIPTION
Indication from +IST1

				Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 179 / 215 BL



=JST1-2/17.2
=JST1-2-W4
-X14 3
+EB
-181K5
/181.5
ST1 off order
-159K3
/159.3
St.1T>
-159K6
/159.6
Station tr. 1 P>
-157K5
/157.5
4,16kV c.b. OST1 off
-X14 4
C.b. +IST1 off
=JST1-2/17.5
=JST1-2-17W5
-X15.1 1
+EB
-181K2
/181.2
Syn. selection ST1 c.b
-181K4
/181.4
ST1 on order
-156K7
/156.7
Synchron relay ST1/2
-X15.1 2
C.b. +IST1 on
Bildbeschreibung
IMAGE DESCRIPTION
controller +IST1 c. b.
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 180
215 BL

19F3.L+ /179.8 — 19F3.L+ /182.1

-40X5 DA 1 BHKS 1 /40.5 19

+EB -181K1 .1 11 14

+EB -185K2 /185.2 61 62 Syn. selection ST2 c.b

-1X0R 48

-181S4 E- 3 4 +EB Push button c. b. ST1

Push button c. b. ST1 3.13 3.14

-1X0R 49 +EB

+EB -183K7 /183.7 33 34 LV c.b. station tr. 2 on

-73K7 /73.7 23 24 BG c.b. off

+EB -181K5 .5 11 12 ST1 off order

-37X1 /37.1 DI4 23 DI4

-1X0R 50

+EB -70K8.1 /70.8 13 14 BG off fault

+EB -75K1 /75.1 11 14 LV c.b. ST1-2 off

-37X1 /37.1 DI4 24 DI4

-40X5 DA 1 BHKS 1 /40.5 20

-1X0R 51 +EB

+ - -181S4

/179.5 1X0R:L-19F3 — 1X0R:L-19F3 /183.4

+EB -181K1 A1 A2

+EB -181K2 A1 A2

+EB -181K4 A1 A2

+EB -181K5 A1 A2

-1XM:4 /179.8 — -1XM:4 /182.1

11 14 12 .2

13 14 /155.2
23 24 /155.2
33 34 /155.2
43 44 /155.2
53 54 /180.7
61 62 /185.2
73 74 /155.2
83 84 /155.2

11 14 12 /180.6

11 14 12 21 24 22 .4 /180.1

Syn. selection ST1 c.b | Syn. selection ST1 c.b | Push button ST1 on | ST1 on order | ST1 off order | Push button ST1 off | LED Syn. selection ST1 c.b

Bildbeschreibung IMAGE DESCRIPTION: Control c.b. +IST1

Index	changing	Date	name	Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

KUHSE

Orig. | Ersf. | Ersd. 29.06.05

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

/181.8 19F3.L+ — 19F3.L+ /183.1

/179.7 19F3:ST1/2 — 19F3:ST1/2 /183.1

+IST1-2
Incoming station transformer 1+2

=.IST1-2-W1 5 =.IST1-2/19.4

-X14 11

-35X1 05
/35.1
DI2
DI2

=.IST1-2/16.7
=.IST1-2/16.7
=.IST1-2/16.7
1 2 S
=.IST1-2-W6

1 2 3 4 5
analogue input
13
90
PIN 5 = shield

-55A4
/55.4

/181.8 -1XM:4 — -1XM:4 /183.1

Station transformer 2 LV
4-20mA=0-600kW

C.b. +IST2 tripped n.o.

Bildbeschreibung
IMAGE DESCRIPTION
Signals from +IST2

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

Bildbeschreibung IMAGE DESCRIPTION	Indication from +IST2

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 183 / 215 BL

=JST1-2/18.2
3
=JST1-2-W4
-X14 5
+EB
-185K5 /185.5 ST2 off order 21 24
-165K6 /165.6 Station tr. 2 P> 21 22
-165K3 /165.3 St.2T> 21 22
-163K5 /163.5 OST2-off 11 14
-X14 6
=JST1-2-W4
4
=JST1-2/18.2

=JST1-2/18.5
1
=JST1-2-18W5
-X15.1 3
+EB
-185K2 /185.2 Syn. selection ST2 c.b 53 54
+EB
-185K4 /185.4 ST2 on order 11 14
+EB
-156K7 /156.7 Synchron relay ST1/2 8 5
-X15.1 4
=JST1-2-18W5
2
=JST1-2/18.5

C.b. +IST2 off

Bildbeschreibung IMAGE DESCRIPTION: controller +IST2 c. b.

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 184 / 215 BL

Syn. selection ST2 c.b | Syn. selection ST2 c.b | Push button ST2 on | ST2 on order | ST2 off order | Push button ST2 off | LED Syn. selection ST2 c.b

19F3.L+ /183.8 — 19F3.L+ /186.1

-41X5 DA2 BHKS 1 /41.5 01

-185K1 .1 11 14 +EB

-181K2 /181.2 61 62 Syn. selection ST1 c.b +EB

-185S4 3 4 E- +EB Push button c.b. ST2

-1X0R 52 · -1X0R 53 · -1X0R 54 · -1X0R 55

-179K7 /179.7 33 34 LV c.b. station tr. 1 on +EB

-73K7 /73.7 33 34 BG c.b. off +EB

-37X1 /37.1 DI4 25 DI4

-185K5 .5 11 12 ST2 off order +EB

Push button c.b. ST2 3.13 3.14

-70K8.1 /70.8 43 44 BG off fault +EB

-75K1 /75.1 21 24 LV c.b. ST1-2 off +EB

-37X1 /37.1 DI4 26 DI4

-41X5 DA2 BHKS 1 /41.5 02

-185S4 +EB

/183.5 1X0R:L-19F3 — 1X0R:L-19F3

-185K1 A1 A2 +EB · -185K2 A1 A2 +EB · -185K4 A1 A2 +EB · -185K5 A1 A2 +EB

-1XM:4 /183.8 — -1XM:4 /186.1

-185K1: 11 14 12 .2

-185K2: 13 14 /155.4; 23 24 /155.4; 33 34 /155.4; 43 44 /155.4; 53 54 /184.7; 61 62 /181.2; 73 74 /155.4; 83 84 /155.4

-185K4: 11 14 12 /184.6

-185K5: 11 14 12 .4; 21 24 22 /184.1

Bildbeschreibung IMAGE DESCRIPTION: Control c.b. +IST2

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann				43730	43730
				Check	A. Stellmann	Orig. / Ers.f.	Ers.d. 29.06.05			page 185
				Norm	33					215 BL

/185.8 19F3.L+

19F3.L+

-X14.2 7

19F8:ST3 /187.1

+IST3
Incoming station transformer 3

-X14.2 9

-X14.2 12

-X14.2 13

-35X1 06 /35.1 DI2 DI2

-35X1 07 /35.1 DI2 DI2

-35X1 08 /35.1 DI2 DI2

/185.8 -1XM:4

-1XM:4 /187.1

C.b. +IST3 tripped n.o.

Selector sw. c.b. contr. +IST3 in release

M.c.b. tripped +IST3 n.c.

Bildbeschreibung
IMAGE DESCRIPTION

Signals from +IST3 extension

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 186 / 215 BL

1 2 3 4 5 6 7 8

A B C D E F

/171.8 19F8.L+
19F8.L+ /191.1
-187K1 .1 c.b. IST3 off
11 12
/186.5 19F8:ST3
19F8:ST3
+IST3
Incoming station transformer 3
-X14.2 8
-1XOL 9
-1XOL 10
1 2
-187H4
3
-38X2
/38.2
DI5
30
DI5
-187K1
A1
A2
/186.8 -1XM:4
-1XM:4 /191.1
/169.7 1XOL:L-19F3
1XOL:L-19F3
11 14 12 .5
21 24 22

c.b. IST3 off

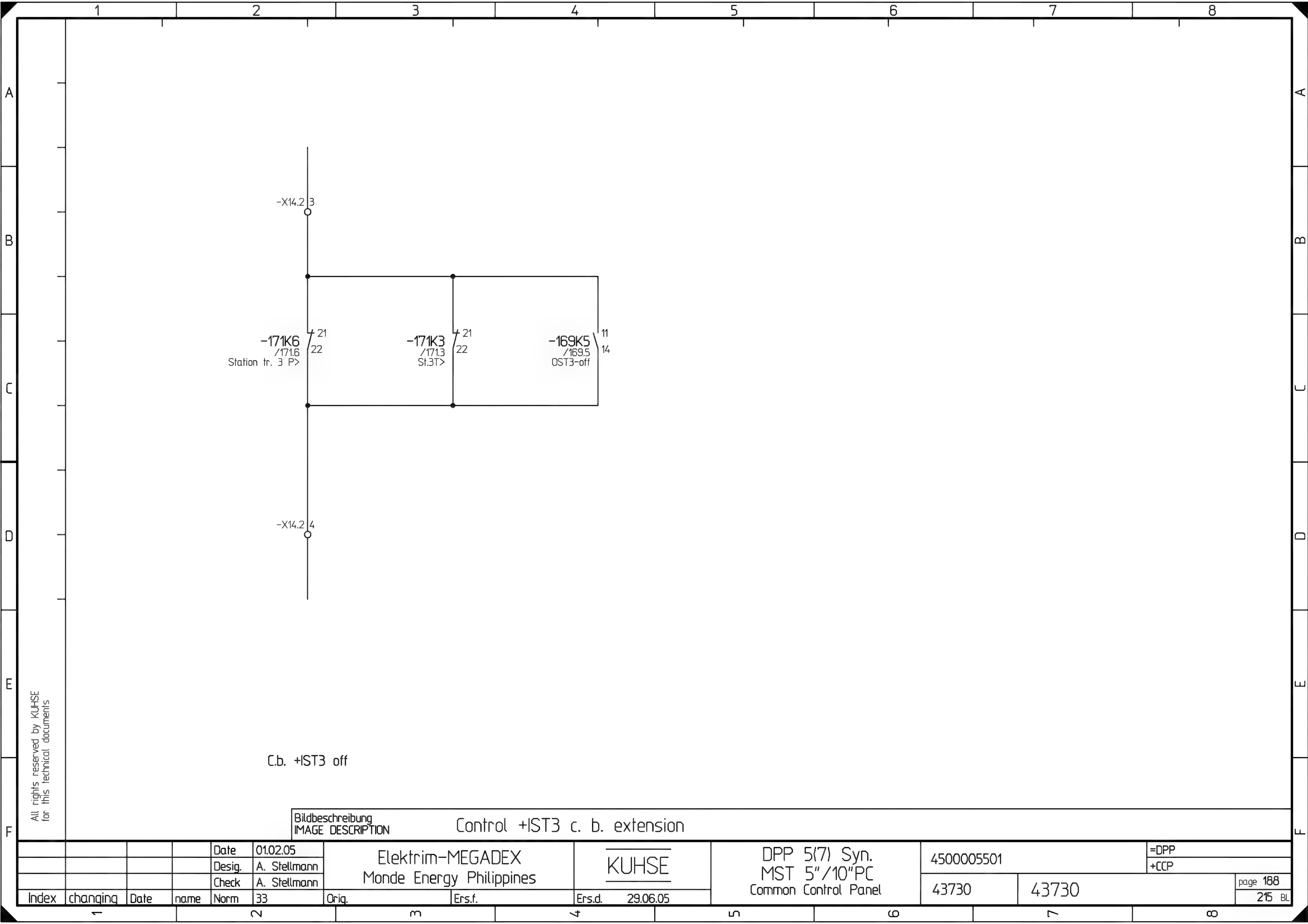
LV c.b. station tr. 3 off

Station transformer 3 LV c. b.

Bildbeschreibung
IMAGE DESCRIPTION

Indication from +IST3 extension

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines		KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501		=DPP
				Desig.	A. Stellmann							+CCP
				Check	A. Stellmann					43730	43730	page 187
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05				215 BL


-X14.2 3
-171K6 /171.6 Station tr. 3 P> 21 22
-171K3 /171.3 St.3T> 21 22
-169K5 /169.5 OST3-off 11 14
-X14.2 4
C.b. +IST3 off
Bildbeschreibung
IMAGE DESCRIPTION
Control +IST3 c. b. extension
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 188
215 BL

Bildbeschreibung
IMAGE DESCRIPTION

spare

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 189 / 215 BL

Bildbeschreibung
IMAGE DESCRIPTION

spare

Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05
				Date	01.02.05			
				Desig.	A. Stellmann			
				Check	A. Stellmann			

Elektrim-MEGADEX
Monde Energy Philippines

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

=DPP
+CCP

43730 | 43730

19F8.L+ /187.8 — 19F8.L+ /192.1

-X14.3 1
=.OGA1-W1 1 =.OGA1/12.1

+OGA1
Outgoing general auxiliaries 1

=.OGA1-W1 3 =.OGA1/12.1
=.OGA1-W1 4 =.OGA1/12.2
=.OGA1-W1 6 =.OGA1/12.3
=.OGA1-W1 7 =.OGA1/12.4
=.OGA1-W1 8 =.OGA1/12.5

-X14.3 3
-X14.3 4
-X14.3 6
-X14.3 7
-X14.3 8

-39X1 01 /39.1 DE6 general — DE6 general
-39X1 02 /39.1 DE6 general — DE6 general
-39X1 03 /39.1 DE6 general — DE6 general
-39X1 04 /39.1 DE6 general — DE6 general
-39X1 05 /39.1 DE6 general — DE6 general

-1XM:4 /187.8 — -1XM:4 /194.1

spare

spare

Feeder +OGA1 power house on

Feeder +OGA1 power house tripped

M.c.b. tripped +OGA1 n.c.

Bildbeschreibung
IMAGE DESCRIPTION
Signals from +OGA1

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 191 / 215 BL

/191.8 19F8.L+

19F8.L+ /193.1

-X14.4 1

=.OGA2-W1 1 =.OGA2/15.1

+OGA2
Outgoing general auxiliaries 2

=.OGA2-W1 2 =.OGA2/15.7

-X14.4 2

-39X1
/39.1
DE6 general

06
DE6 general

M.c.b. tripped +OGA2 n.c.

Bildbeschreibung
IMAGE DESCRIPTION

Signals from +OGA2

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. Ers.f.	Ers.d. 29.06.05			page 192 215 BL

/192.8 19F8.L+

19F8.L+ /194.1

-X14.5 1

=.ICGC1-W1.1 1
=.ICGC1/13.5

+OSUDT
Outgoing step up/down transformer

=.ICGC1-W1.1 2
=.ICGC1/13.5

-X14.5 2

-39X1 07
/39.1
DE6 general

DE6 general

M.c.b. tripped +OSUDT n.c.

Bildbeschreibung
IMAGE DESCRIPTION

Signals from +OSUDT (in ICGC1)

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines		KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501		=DPP +CCP	
				Desig.	A. Stellmann								
				Check	A. Stellmann					43730	43730		page 193
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05					215 BL

19F8.L+ /193.8 — 19F8.L+ /196.1

-X14.6 1
=.OAF-W1 1 =.OAF/14.1

+OAF
Outgoing aux. feeder 1

Wire	Ref	Terminal	Device
=.OAF-W1 3	=.OAF/14.1	-X14.6 3	-39X1 08 /39.1 DE6 general
=.OAF-W1 4	=.OAF/14.2	-X14.6 4	-39X1 09 /39.1 DE6 general
=.OAF-W1 6	=.OAF/14.3	-X14.6 6	-39X1 10 /39.1 DE6 general
=.OAF-W1 7	=.OAF/14.4	-X14.6 7	-39X1 11 /39.1 DE6 general
=.OAF-W1 9	=.OAF/14.5	-X14.6 9	-39X1 12 /39.1 DE6 general
=.OAF-W1 10	=.OAF/14.6	-X14.6 10	-39X1 13 /39.1 DE6 general
=.OAF-W1 11	=.OAF/14.7	-X14.6 11	-39X1 14 /39.1 DE6 general

-1XM:4 /191.8 — -1XM:4 /199.1

Outgoing feeder +OAF to +CA on

Outgoing feeder +OAF to +CA tripped

Outg. feeder +OAF to emission contr. build. 1 on

Outg. feeder +OAF to emiss.contr. build. 1 tri.

Outg. feeder +OAF to emission contr. build. 2 on

Outg. feeder +OAF to emiss.contr. build. 2 tri.

M.c.b. tripped +OAF n.c.

Bildbeschreibung IMAGE DESCRIPTION: Signals from +OAF

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Orig. | Ers.f. | Ers.d. 29.06.05

Elektrim-MEGADEX
Monde Energy Philippines

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

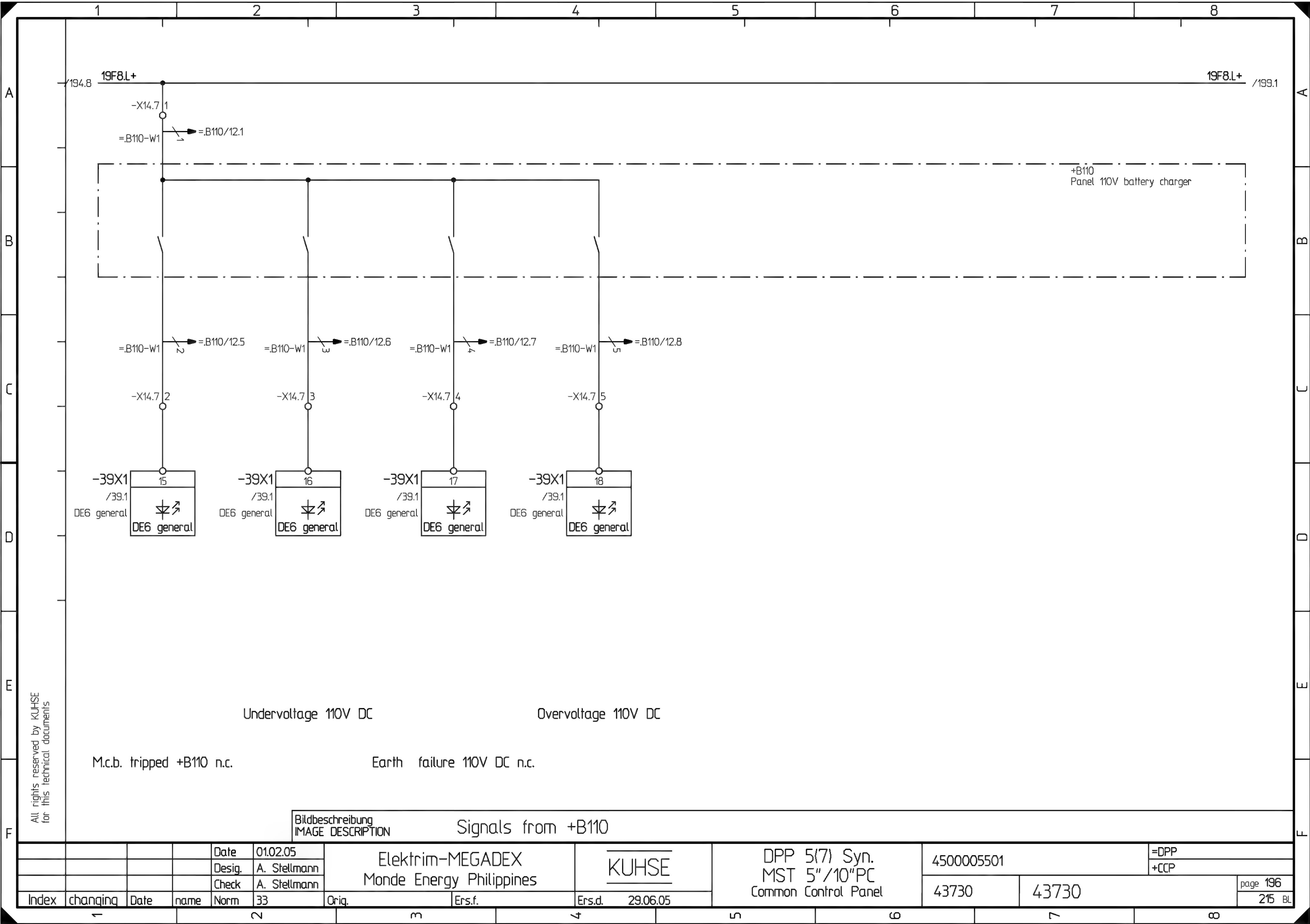
43730 | 43730

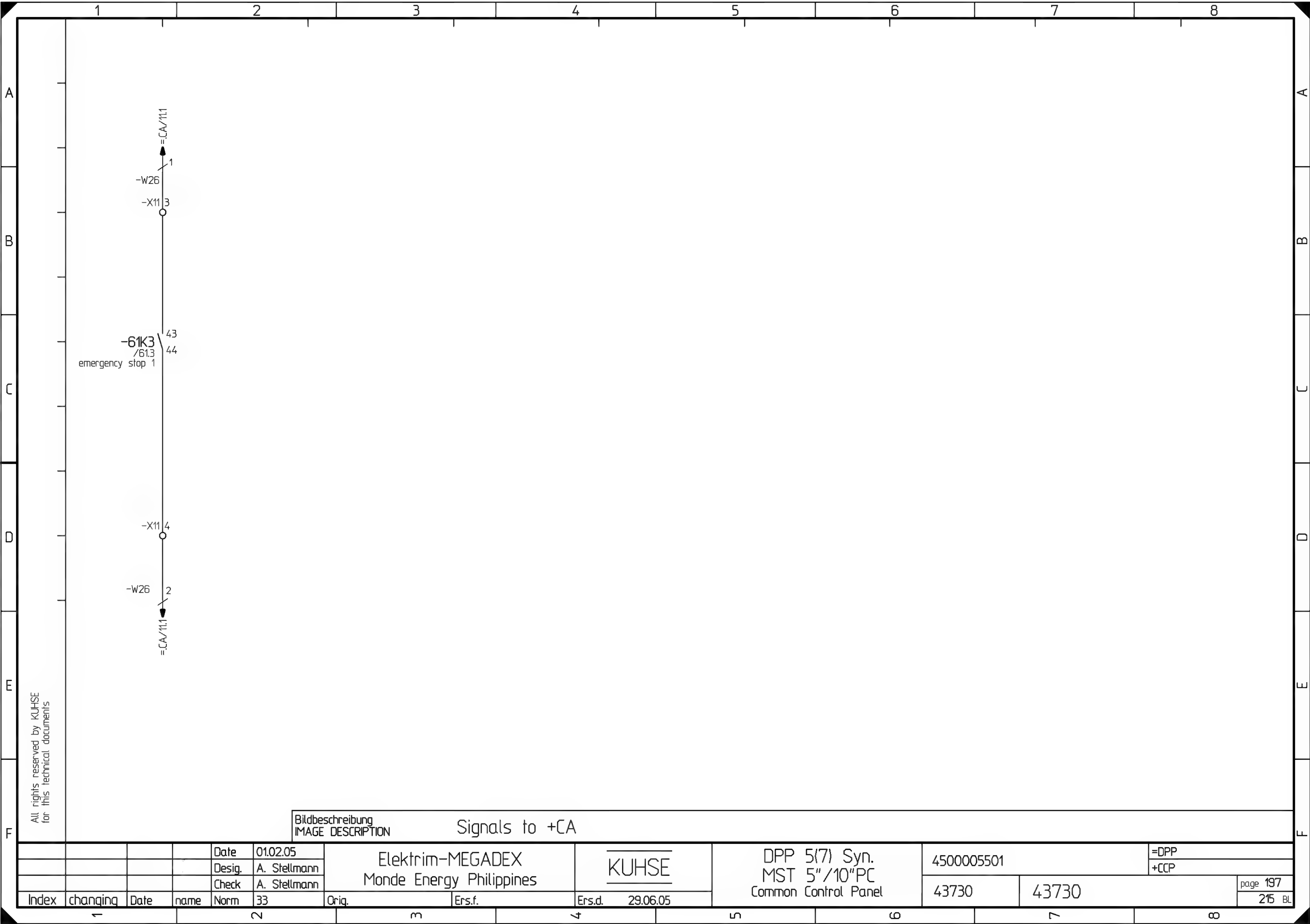
=DPP
+CCP

Bildbeschreibung
IMAGE DESCRIPTION

spare

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP
				Desig.	A. Stellmann					+CCP
				Check	A. Stellmann				43730 / 43730	page 195
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			215 BL


19F8.L+
/194.8
19F8.L+
/199.1
-X14.7 1
=.B110-W1
=.B110/12.1
+B110
Panel 110V battery charger
=.B110-W1
=.B110/12.5
=.B110/12.6
=.B110/12.7
=.B110/12.8
-X14.7 2
-X14.7 3
-X14.7 4
-X14.7 5
-39X1 15 /39.1 DE6 general
-39X1 16 /39.1 DE6 general
-39X1 17 /39.1 DE6 general
-39X1 18 /39.1 DE6 general
Undervoltage 110V DC
Overvoltage 110V DC
M.c.b. tripped +B110 n.c.
Earth failure 110V DC n.c.
Bildbeschreibung
IMAGE DESCRIPTION
Signals from +B110
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 196
215 BL


=.CA/11.1
1
-W26
-X11 3
-61K3
/61.3
emergency stop 1
43
44
-X11 4
-W26
2
=.CA/11.1
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Bildbeschreibung
IMAGE DESCRIPTION
Signals to +CA
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Index changing Date name Norm 33
Elektrim-MEGADEX
Monde Energy Philippines
Orig.
Ers.f.
KUHSE
Ers.d. 29.06.05
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 197
215 BL

Bildbeschreibung
IMAGE DESCRIPTION
spare

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. Ers.f. Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

=DPP
+CCP

43730 43730

/196.8 19F8.L+ — 19F8.L+ /200.1

/194.8 −1XM:4 — −1XM:4 /202.1

Bildbeschreibung
IMAGE DESCRIPTION spare

			Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
			Desig.	A. Stellmann					
			Check	A. Stellmann				43730	43730	page 199
Index	changing	Date	name	Norm 33	Orig. / Ers.f.	Ers.d. 29.06.05			215 BL

/199.8 19F8.L+

19F8.L+ /202.1

-X6 17

-X6 18

-39X1 /39.1 DE6 general

19

DE6 general

spare

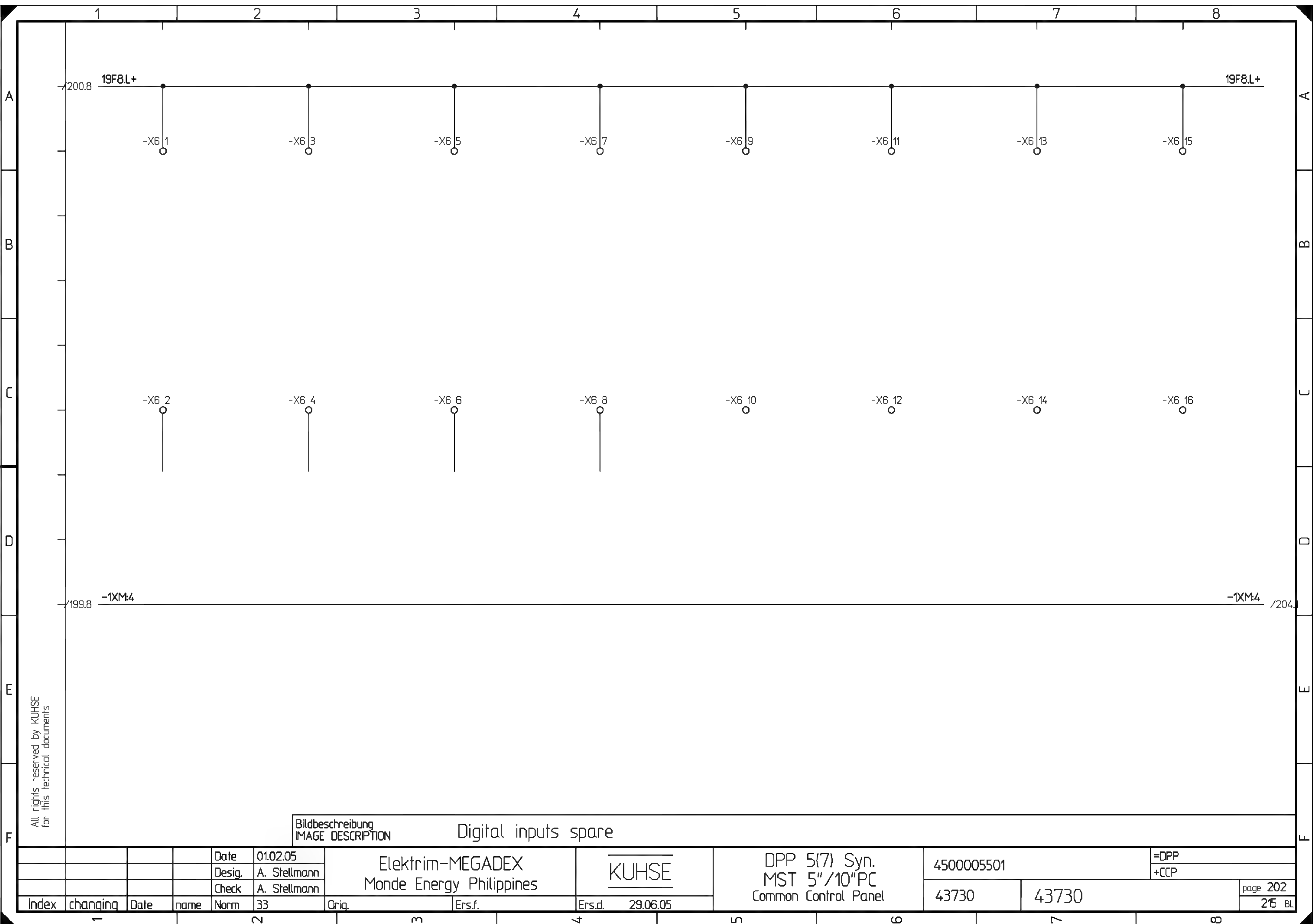
Bildbeschreibung IMAGE DESCRIPTION: Failure inputs

Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05			
				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines		KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					43730	43730
				Check	A. Stellmann						page 200 / 215 BL

Bildbeschreibung
IMAGE DESCRIPTION

spare

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			



1
2
3
4
5
6
7
8
A
B
C
D
E
F
/200.8
19F8.L+
19F8.L+
-X6 1
-X6 3
-X6 5
-X6 7
-X6 9
-X6 11
-X6 13
-X6 15
-X6 2
-X6 4
-X6 6
-X6 8
-X6 10
-X6 12
-X6 14
-X6 16
/199.8
-1XM:4
-1XM:4
/204.1
Bildbeschreibung
IMAGE DESCRIPTION
Digital inputs spare
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Index changing Date name Norm 33
Elektrim-MEGADEX
Monde Energy Philippines
Orig.
Ers.f.
KUHSE
Ers.d. 29.06.05
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 202
215 BL

Bildbeschreibung
IMAGE DESCRIPTION

spare

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines		KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP
				Desig.	A. Stellmann						+CCP
				Check	A. Stellmann					43730	43730
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05			page 203 / 215 BL

Bildbeschreibung IMAGE DESCRIPTION	control cab ventilation +CCP

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ersf. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

19F7.L+ /172.8 — 19F7.L+ /207.1

-40X5 DA 1 BHKS 1 /40.5 22 — -205K1 A1 A2

=.IST1-2/24.5 1 =.IST1-2-W2 -X14 1 — -205K1 .1 11 14 Panel fan +IST1/2 on — -X14 2 =.IST1-2-W2 2 =.IST1-2/24.5

-40X5 DA 1 BHKS 1 /40.5 23 — -205K3 A1 A2

=.ICGC1/17.5 1 =.ICGC1-W2.1 -X14.5 5 — -205K3 .3 11 14 Panel fan +OSUDT on — -X14.5 6 =.ICGC1-W2.1 2 =.ICGC1/17.5

-40X5 DA 1 BHKS 1 /40.5 24 — -205K5 A1 A2

-X14.2 1 — -205K5 .5 11 14 Panel fan +IST3 on (option) — -X14.2 2

-40X5 DA 1 BHKS 1 /40.5 25 — -205K7 A1 A2

=.OGA1/14.5 1 =.OGA1-W2 -X14.3 12 — -205K7 .7 11 14 Panel fan +OGA1 on — -X14.3 13 =.OGA1-W2 2 =.OGA1/14.5

-1XM:4 /204.5 — -1XM:4 /206.1

11 14 12 .2 — 11 14 12 .4 — 11 14 12 .6 — 11 14 12 .8

Panel fan +IST1/2 on

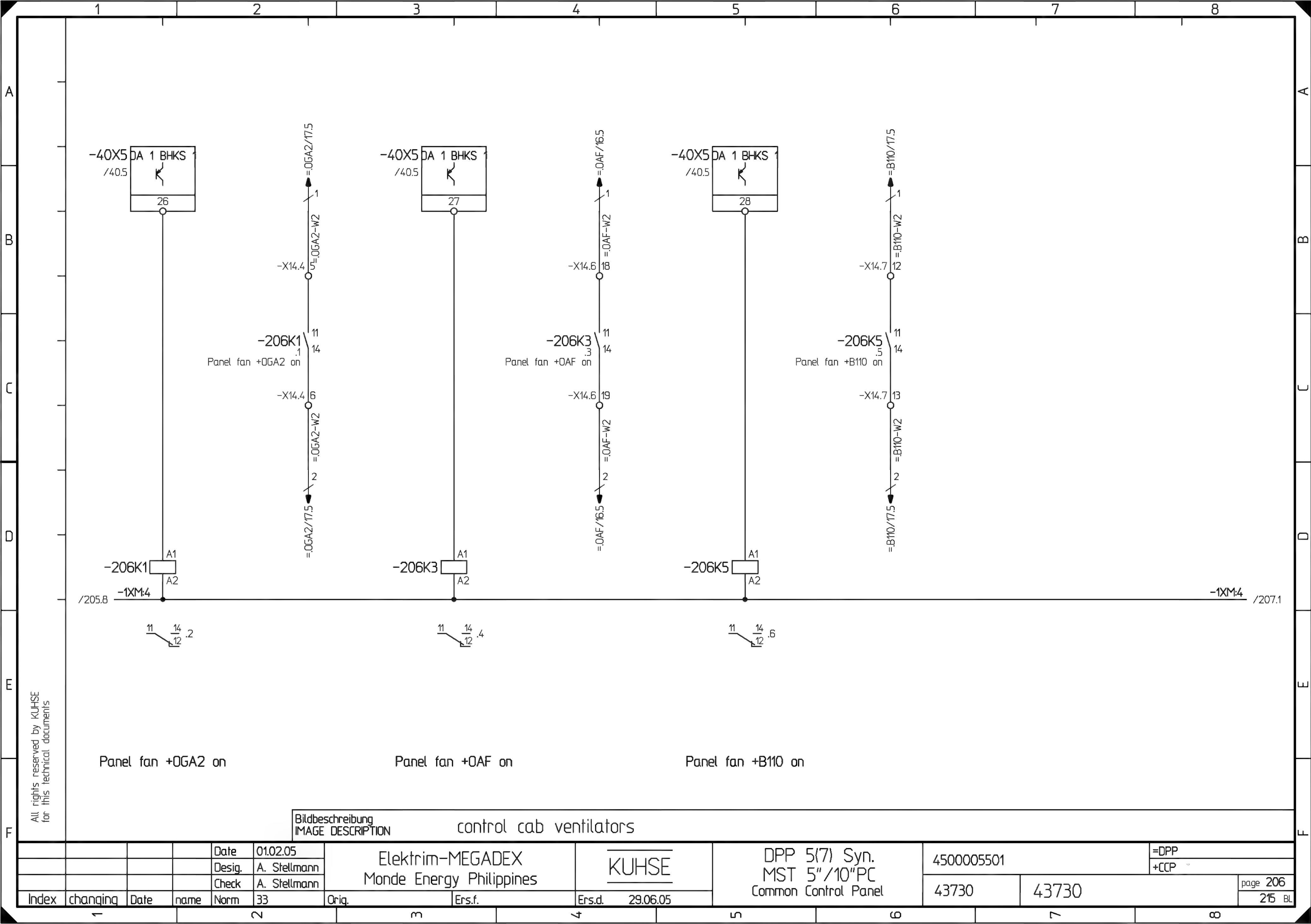
Panel fan +OSUDT on

Panel fan +IST3 on (option)

Panel fan +OGA1 on

Bildbeschreibung IMAGE DESCRIPTION: control cab ventilators

Index	changing	Date	name	Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
				Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 205 / 215 BL



-40X5 DA 1 BHKS 1
/40.5
26
27
28
=.OGA2/17.5
=.OGA2-W2
-X14.4 5
-X14.4 6
-206K1
Panel fan +OGA2 on
=.OAF/16.5
=.OAF-W2
-X14.6 18
-X14.6 19
-206K3
Panel fan +OAF on
=.B110/17.5
=.B110-W2
-X14.7 12
-X14.7 13
-206K5
Panel fan +B110 on
A1
A2
/205.8
-1XM:4
/207.1
Panel fan +OGA2 on
Panel fan +OAF on
Panel fan +B110 on
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Bildbeschreibung IMAGE DESCRIPTION
control cab ventilators
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index
changing
Date
name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 206
215 BL

/205.8 19F7.L+

19F7.L+

-40X5 DA 1 BHKS 1
/40.5
29

-207K7
A1
A2

/206.8 -1XM:4

-1XM:4 /210.1

11 14 /67.7
12
21 24 /66.2
22

Lamp common alarm +CA

Bildbeschreibung
IMAGE DESCRIPTION
Spare outputs

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines		KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann						
				Check	A. Stellmann					43730	43730
Index	changing	Date	name	Norm	33	Orig.	Ers.f.	Ers.d. 29.06.05			page 207 215 BL

Bildbeschreibung
IMAGE DESCRIPTION

spare

				Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
				Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
				Check	A. Stellmann			Common Control Panel	43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

Bildbeschreibung IMAGE DESCRIPTION: switchboard light

Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
Desig.	A. Stellmann				43730	43730
Check	A. Stellmann					
Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			

Index	changing	Date	name

Bildbeschreibung IMAGE DESCRIPTION: Load shedding step 1-8 control

Date	01.02.05	Elektrim-MEGADEX	KUHSE	DPP 5(7) Syn.	4500005501	=DPP
Desig.	A. Stellmann	Monde Energy Philippines		MST 5"/10"PC		+CCP
Check	A. Stellmann			Common Control Panel	43730	43730
Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 210 / 215 BL

Index | changing | Date | name

-41X5 DA2 BHKS 1 /41.5 18 — -211K1 A1 A2 — 11 14 12 /213.2

-41X5 DA2 BHKS 1 /41.5 19 — -211K2 A1 A2 — 11 14 12 /213.3

-41X5 DA2 BHKS 1 /41.5 20 — -211K3 A1 A2 — 11 14 12 /213.3

-41X5 DA2 BHKS 1 /41.5 21 — -211K4 A1 A2 — 11 14 12 /213.4

-41X5 DA2 BHKS 1 /41.5 22 — -211K5 A1 A2 — 11 14 12 /213.5

-41X5 DA2 BHKS 1 /41.5 23 — -211K6 A1 A2 — 11 14 12 /213.6

-41X5 DA2 BHKS 1 /41.5 24 — -211K7 A1 A2 — 11 14 12 /213.7

-41X5 DA2 BHKS 1 /41.5 25 — -211K8 A1 A2 — 11 14 12 /213.8

/210.8 -1XM:4 … -1XM:4 /214.1

Load shedding step 9 Load shedding step 10 Load shedding step 11 Load shedding step 12 Load shedding step 13 Load shedding step 14 Load shedding step 15 Load shedding step 16

Bildbeschreibung IMAGE DESCRIPTION: Load shedding step 9-16 control

				Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501	=DPP +CCP
				Desig.	A. Stellmann					
				Check	A. Stellmann				43730	43730
Index	changing	Date	name	Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05			page 211 / 215 BL

Load shedding step 1-8

Relay	Reference	Description	Input terminal	Contacts	Output terminals
-210K1	/210.1	Load shedding step 1	-X2 1	11 / 12 / 14	-X2 2, 3
-210K2	/210.2	Load shedding step 2	-X2 4	11 / 12 / 14	-X2 5, 6
-210K3	/210.3	Load shedding step 3	-X2 7	11 / 12 / 14	-X2 8, 9
-210K4	/210.4	Load shedding step 4	-X2 10	11 / 12 / 14	-X2 11, 12
-210K5	/210.5	Load shedding step 5	-X2 13	11 / 12 / 14	-X2 14, 15
-210K6	/210.6	Load shedding step 6	-X2 16	11 / 12 / 14	-X2 17, 18
-210K7	/210.7	Load shedding step 7	-X2 19	11 / 12 / 14	-X2 20, 21
-210K8	/210.8	Load shedding step 8	-X2 22	11 / 12 / 14	-X2 23, 24

Bildbeschreibung IMAGE DESCRIPTION: Load shedding step 1-8

Index	changing	Date	name	Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP

-211K1 /211.1 Load shedding step 9 — 11, 12, 14 — -X2 25, -X2 26, 27

-211K2 /211.2 Load shedding step 10 — 11, 12, 14 — -X2 28, -X2 29, 30

-211K3 /211.3 Load shedding step 11 — 11, 12, 14 — -X2 31, -X2 32, 33

-211K4 /211.4 Load shedding step 12 — 11, 12, 14 — -X2 34, -X2 35, 36

-211K5 /211.5 Load shedding step 13 — 11, 12, 14 — -X2 37, -X2 38, 39

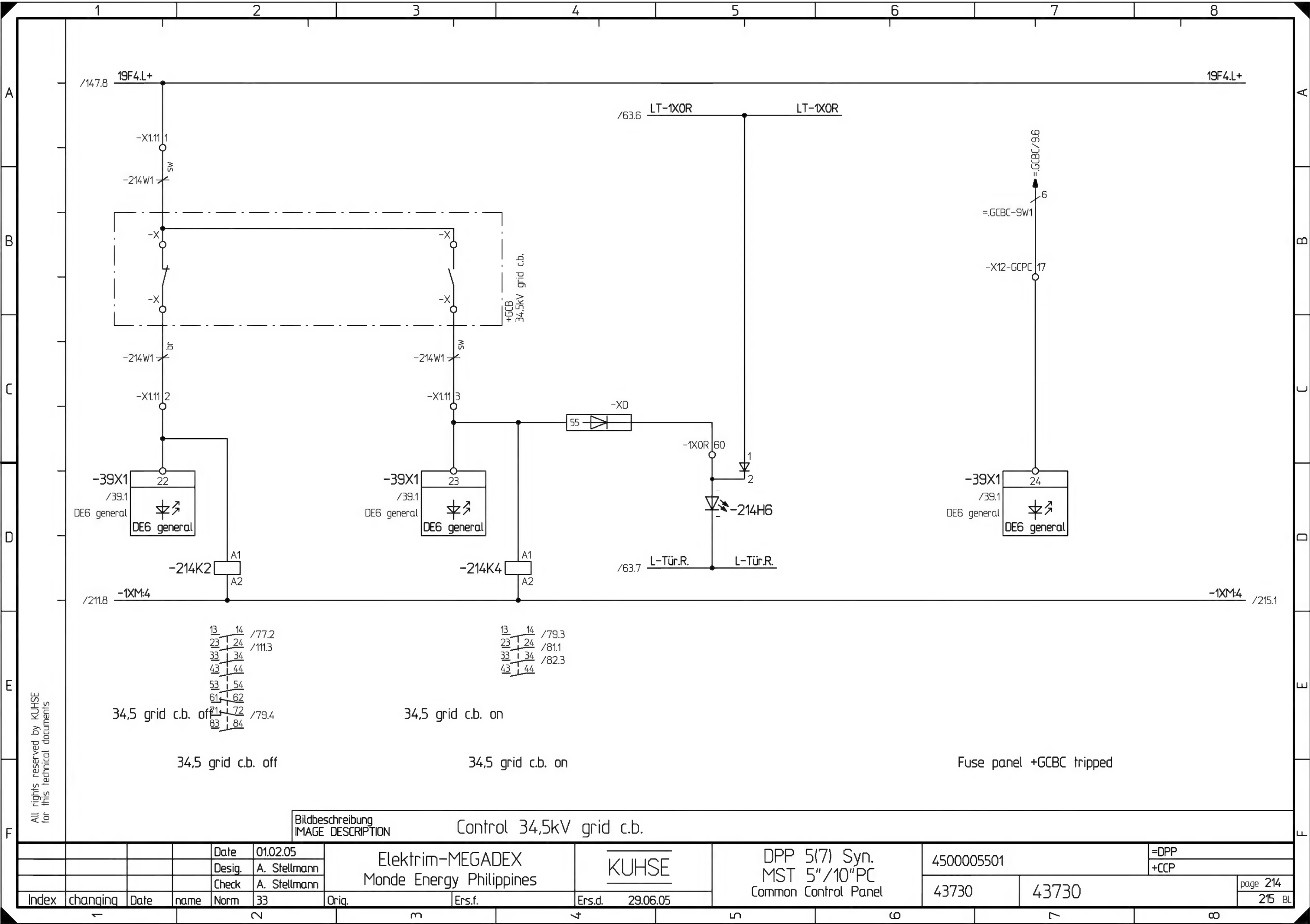
-211K6 /211.6 Load shedding step 14 — 11, 12, 14 — -X2 40, -X2 41, 42

-211K7 /211.7 Load shedding step 15 — 11, 12, 14 — -X2 43, -X2 44, 45

-211K8 /211.8 Load shedding step 16 — 11, 12, 14 — -X2 46, -X2 47, 48

Bildbeschreibung IMAGE DESCRIPTION: Load shedding step 9-16

Date	01.02.05	Elektrim-MEGADEX Monde Energy Philippines	KUHSE	DPP 5(7) Syn. MST 5"/10"PC Common Control Panel	4500005501
Desig.	A. Stellmann				=DPP +CCP
Check	A. Stellmann				43730 / 43730
Norm	33	Orig. / Ers.f.	Ers.d. 29.06.05		
Index / changing / Date / name					


19F4.L+
/147.8
19F4.L+
/63.6 LT-1X0R
LT-1X0R
=.GCBC/9.6
6
=.GCBC-9W1
-X12-GCPC 17
-X1.11 1
-214W1 sw
-X
-X
-X
-X
+GCB
34,5kV grid c.b.
-214W1 br
-214W1 sw
-X1.11 2
-X1.11 3
-XD
55
-1X0R 60
1
2
-214H6
-39X1 22
/39.1
DE6 general
DE6 general
-39X1 23
/39.1
DE6 general
DE6 general
-39X1 24
/39.1
DE6 general
DE6 general
-214K2
A1
A2
-214K4
A1
A2
/63.7 L-Tür.R.
L-Tür.R.
/211.8 -1XM:4
-1XM:4 /215.1
/77.2
/111.3
/79.4
/79.3
/81.1
/82.3
34,5 grid c.b. off
34,5 grid c.b. on
34,5 grid c.b. off
34,5 grid c.b. on
Fuse panel +GCBC tripped
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Bildbeschreibung
IMAGE DESCRIPTION
Control 34,5kV grid c.b.
Date 01.02.05
Desig. A. Stellmann
Check A. Stellmann
Norm 33
Index changing Date name
Orig.
Ers.f.
Ers.d. 29.06.05
Elektrim-MEGADEX
Monde Energy Philippines
KUHSE
DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel
4500005501
43730
43730
=DPP
+CCP
page 214
215 BL

Control 34,5kV grid c.b.

Release KSY grid

KSY grid on

Grid c.b. on

Grid c.b. off

Bildbeschreibung IMAGE DESCRIPTION: Control 34,5kV grid c.b.

Index	changing	Date	name		
				Date	01.02.05
				Desig.	A. Stellmann
				Check	A. Stellmann
				Norm	33

Elektrim-MEGADEX
Monde Energy Philippines

Orig. | Ers.f. | Ers.d. 29.06.05

KUHSE

DPP 5(7) Syn.
MST 5"/10"PC
Common Control Panel

4500005501

43730 | 43730

=DPP
+CCP